INDEPENDENT ORBITER ASSESSMENT

ASSESSMENT OF THE
ELECTRICAL POWER
DISTRIBUTION AND CONTROL
SUBSYSTEM
VOLUME 3 OF 3

26 FEBRUARY 1988

| ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #: | ELD&C. | 37 -6188 2485-2 | | NASA DATA: BASELINE NEW | |
|---|------------------------|-----------------------|----------------------|-------------------------------|--------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6188 HYBRI | D DRIVER | CAbe II (I | NV 3 A ON) | |
| LEAD ANALYST: | K. SC | HMECKPEPE! | 2 | | |
| ASSESSMENT: | | | | | |
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| SUBSYST MDAC ID ITEM: | EM: | : | | EPD 618 HYB | 9 | RIVE | R TYP | E II | (INV | 7 3 A | ON) | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6190 HYBRID | DRIVER T | YPE | II (I | NV 3 | B ON) | | |
| LEAD ANALYST: | K. SCHM | ECKPEPER | t | | | | | |
| ASSESSMENT: | | | | | | | | |
| CRITICAL | | REDUNDA | ANCY | SCREE | NS | | CIL ITEN | 4 |
| FLIGH HDW/FU | | A | В | | С | | | |
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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/13/87 EPD&C-6192 05-6-2485-2 | 1 | ASA DATA: BASELINE [] NEW [X] |
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| | EPD&C 6192 HYBRID DRIV | ER TYPE II (INV | CON) |
| LEAD ANALYST: | K. SCHMECKP | PEPER | |
| ASSESSMENT: | | | |
| CRITICAL | | OUNDANCY SCREENS | CIL ITEM |
| FLIGH HDW/FU | | в с | |
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| SUBSYSTEM MDAC ID: ITEM: | f : | | EPD&C 6194 HYBRI | D DR | IVER | TYPE | III | (INV | 3 A | ON) | | | |
| LEAD ANAI | LYSI | r: | K. SC | HMEC | KPEP | ER | | | | | | | |
| ASSESSME | T: | | | | | | | | | | | | |
| (| | CICAL | | R | EDUN | DANCY | SCR | EENS | | | CIL | | |
| | | FLIGH DW/FU | | A | | В | | C | ! | | | - | |
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| SUBSYSTEM: MDAC ID: ITEM: | | EPD&C 6195 HYBRID | DR | IVER | TYPE | III | (II) | VV | 3 2 | A ON) | | | | |
| LEAD ANALYS | ST: | K. SCH | MEC | KPEPE | R | | | | | | | | | |
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| ASSESSMENT DATE: 6/13/87 ASSESSMENT ID: EPD&C-6196 NASA FMEA #: 05-6-2486-2 SUBSYSTEM: EPD&C | | | | | | | | | | | | | | SA BASE | LIN | Œ | | |] | | |
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| SUBSYST MDAC ID ITEM: | | EPD&C 6197 HYBRI | | RIVER | TYPE | III | /NI) | 7 3 B | ON) | | |
| LEAD AN | ALYST: | K. SC | HME | | ER | | | | | | |
| ASSESSMI | ENT: | | | .7 | | | | | | | |
| | CRITICAL FLIGH | | F | EDUN | DANCY | SCRE | EENS | | | CII | |
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| SUBSYSTE MDAC ID: ITEM: | | | | EPD& 6198 HYBR | | IVER | TYPE | III | (INV | 3 C | ON) | | | |
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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | | | | NASA DATA BASELINE NEW | · - |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6199 HYBRID DR | IVER TYPE | III (I | 1 V 3 C ON) | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL: FLIGHT | | EDUNDANCY | SCREENS | 5 | CIL ITEM |
| HDW/FUI | NC A | В | | C | ~~~ |
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| SUBSYSTI MDAC ID: ITEM: | | EPD&C 6201 HYBRI | | RIVE | R TYPE | III (I | NV 3 A C | FF) | | | |
| LEAD AND | ALYST: | K. SC | HME | CKPE | PER | | | | | | |
| ASSESSMI | ENT: | | | | | | | | | | |
| | CRITICAL FLIGH HDW/FU | T | F | | NDANCY B | SCREEN | s c | CI IT: | | | |
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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | NASA DATA BASELINE NEW | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6202 HYBRID DRI | VER TYPE III | (INV 3 B OFF |) |
| LEAD ANALYST: | K. SCHMECK | (PEPER | | |
| ASSESSMENT: | | | | |
| CRITICAL FLIGH | | DUNDANCY SC | | CIL ITEM |
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| | | F | ICALI LIGH! N/FUI | ľ | • | | RI A | EDUN | NDA | NC | Y B | SCRI | EENS | s c | | | CIL | | |
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| NASA IOA | | | /1R /1R |] | | [| P P |] | | [| P P |] | [| P |] | | [|] | • |
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| RECOMMEN | IDA' | rI | ons: | | (If | d : | if: | fere | ent | 1 | îro | om N | ASA) |) | | | | | |
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| * CIL RE | ETE: | NT | ION : | RA? | riona | L | E: | (I : | fa | pı |) 1: | icab | | | DEQUA' DEQUA' | | [|] | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/13/87 EPD&C-6205 05-6-2487-1 | | nasa da: Baselii Ni | |
|--|--------------------------------------|----------------------|-------------------------------|---------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6205 HYBRID DRIVE | R TYPE III | (INV 3 C O | FF) |
| LEAD ANALYST: | K. SCHMECKPE | PER | | |
| ASSESSMENT: | | | | |
| CRITICAL: FLIGH | r | NDANCY SCRI | | CIL ITEM |
| HDW/FU | NC A | В | С | |
| NASA [3 /1R IOA [3 /3 | | [NA] [] | [P] [] | [] * [] |
| COMPARE [/N |] [N] | [N] | [иј | [] |
| RECOMMENDATIONS: | (If differe | ent from NA | ASA) | |
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| * CIL RETENTION I | RATIONALE: (If | applicabl | .e) ADEQUATE INADEQUATE | |
| IOA CONCURS WITH | NASA'S REEVAL | LUATION AFT | ER FURTHER | ANALYSIS. |

| ASSESSMEN ASSESSMEN NASA FMEA | T I | | EPI | /06/87 NASA DATA: PD&C-6206 BASELINE [] 5-6-2297-1 NEW [X] | | | | | | | | | | | | | | | | |
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| SUBSYSTEM MDAC ID: ITEM: | i: | | 620 | D&C D6 SE, | 3 A | r | .O A | AC I | 3 U | JS | 3C | OF | F | | | | | | | |
| LEAD ANAI | YST | : | K. | SCH | ME | CF | PEF | PER | | | | | | | | | | | | |
| ASSESSMEN | ASSESSMENT: | | | | | | | | | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCR | | | | | | | | | REE | NS | 5 | | | CI | L EM | ĺ | | | | |
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| NASA IOA | [3 [3 | /1R /3 |] | |] | P |] | | [| NA |] | | [[| P |] | | [| |] | * |
| COMPARE | ι | /N |] | | [| N |] | | [| N |] | | [| N |] | | [| |] | |
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| * CIL RET | CENT | ON | RAT | IONA | ΔLI | Ξ: | (I: | f a | pj | pli | ica | able | | | DEQU DEQU | | [| |] | |
| REMARKS: | JRS | WITH | NA. | SA'S | 3 2 | AN | ALY | SIS | 1 | AS | IC | DA W | A | S 1 | UNDE | R TH | E : | IMI | PRE | ESSION |

THAT THE INPUT RELAY TO THE AC INVERTERS WAS LATCHING, WHEN IN

FACT, IT IS NOT.

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/06/87 EPD&C-620 05-6-2297 | 0&C-6207 BASELINE [] 06-2297-1 NEW [X] | | | | | | | | | | | |
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| SUBSYSTEM: | EPD&C 6207 | TO AC BUS 3B O | FF | | | | | | | | | | |
| LEAD ANALYST: | K. SCHMEC | CKPEPER | | | | | | | | | | | |
| ASSESSMENT: | ASSESSMENT: | | | | | | | | | | | | |
| CRITICAL FLIGH HDW/FU | r | REDUNDANCY SCRE | ENS C | CIL ITEM | | | | | | | | | |
| NASA [3 /1R IOA [3 /3 |] [P | '] [NA]] [] | [P] [] | [] * | | | | | | | | | |
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| RECOMMENDATIONS: | (If dif | ferent from NAS | 5 A) | | | | | | | | | | |
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| REMARKS: | | | INADEQUATE | | | | | | | | | | |
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| SUBSYSTEM MDAC ID: | M: | | EPD 620 FUS | 8 | 3 A | то | AC B | JS | 3 A | OFF | | | | | | | |
| LEAD ANA | LYST | : | ĸ. | SCHI | ME | CKPE | EPER | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | |
| 1 | REDU | JNDAN | CY | SCF | REENS | | | | CI | L | | | | | | | |
| | | LIGH W/FU | | | 2 | A | | В | | | С | | | | | | |
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| COMPARE | (| /N |] | | [| N] | [| N |] | [| N |] | | [| |] | |
| RECOMMEN | DATI | ONS: | (| (If | đi | ffe | rent | fr | om 1 | NASA) | | | | | | | |
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| * CIL RE | TENI | NOI | RAT: | IONA | LE | : (| If ap | pl: | ical | | | EQUA EQUA | | [| |] | |
| REMARKS: | URS | WITH | NA: | SA'S | A | NAL | YSIS | AS | IO | A WAS | ี _ บ | NDER | TH: | E] | MP | RES | SION |

THAT THE INPUT RELAY TO THE AC INVERTERS WAS LATCHING, WHEN IN

FACT, IT IS NOT.

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/06/87 EPD&C-620 05-6-2297 | 9 - 1 | NASA DATA BASELINE NEW | = · · · = | | | | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | 6209 | TO AC BUS 30 | C ON | | | | | | | | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | |
| CRITICAI FLIGH HDW/FU | T | EDUNDANCY SO | CREENS | CIL ITEM | | | | | | | | |
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| SUBSYSTEM MDAC ID: | | | EPD&6 6210 FUSE | C , 3A [!] | ro a | C BUS | 3B (| ON | | | | | |
| LEAD ANA | LYST | : | K. S | CHMEC | KPEP | ER | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | |
| CKITICALITI REDONDING DELLERO | | | | | | | | | | CIL | | | |
| | | | NC NC | A | | В | | C | ! | | | •• | |
| NASA IOA | [3 [3 | /1R /3 |] | [P |] | [N. | A] | [F |] | | [|] | * |
| COMPARE | (| /N |] | [N |] | [N |] | [N |] | | [|] | |
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| * CIL RE | TENT | ION | RATIO | NALE: | (If | appl | icab | 2 | ADEQUA | ATE ATE | [|] | |
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FACT, IT IS NOT.

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| | EPD&C 6211 FUSE, 3A T | O AC BUS 3A ON | | | | | | | | | | | |
| LEAD ANALYST: | K. SCHMECK | PEPER | | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | | |
| CRITICAL: FLIGH HDW/FUI | r | DUNDANCY SCREEN | s c | CIL ITEM | | | | | | | | | |
| IIDW/ PO | A A | В | C | | | | | | | | | | |
| NASA [3 /1R IOA [3 /3 |] [P |] [AN] [] [] [| P] | [] * | | | | | | | | | |
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| RECOMMENDATIONS: | (If diffe | erent from NASA |) | | | | | | | | | | |
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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6 | 212 | BASELINE [] NEW [X] | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6212 FUSE, 8 | 30A TO 1 | INV 3 A | | | | | |
| LEAD ANALYST: | K. SCHM | ECKPEPI | ER | | | | | |
| ASSESSMENT: | | | | | | | | |
| CRITICAI FLIGH | | REDUNI | DANCY SCP | REENS | CIL ITEM | | | |
| HDW/FU | | A | В | С | | | | |
| NASA [3 /1F IOA [3 /1F | R] [| P] | [P] [F] | [P] [P] | [x] * | | | |
| COMPARE [/ |] [| [] | [N] | [] | [N] | | | |
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|--|------------------------------|----------------|---|------------------|--|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6213 FUSE, 80A T | ro inv 3 b | | | | | | | |
| LEAD ANALYST: | K. SCHMECKE | PEPER | | | | | | | |
| ASSESSMENT: | | | | | | | | | |
| CRITICAL FLIGH | r | OUNDANCY SCRE | | CIL ITEM | | | | | |
| HDW/FU | NC A | В | С | | | | | | |
| NASA [3 /1R IOA [3 /1R |] [P] | [P] [F] | [P] [P] | [| | | | | |
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| RECOMMENDATIONS: | (If diffe | erent from NA | SA) | | | | | | |
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| * CIL RETENTION : REMARKS: IOA CONCURS WITH | | | e) ADEQUATE INADEQUATE | | | | | | |

| ASSESSMENT ASSESSMENT NASA FMEA | ID: | 6/06/8 EPD&C- 05-6-2 | 6214 | | | NASA DATA: BASELINE [] NEW [X] | | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | | EPD&C 6214 FUSE, | 80A | TO I | NV 3 | С | | | | | | |
| LEAD ANALYS | ST: | K. SCI | imec: | KPEPE | R | | | | | | | |
| ASSESSMENT | : | | | | | | | | | | | |
| CR: | ITICAL FLIGH | | R | EDUNE | | SCRE | | | CIL ITEM | | | |
| 1 | HDW/FU | NC | A | | В | | C | | | | | |
| NASA [IOA [| 3 /1R 3 /1R |] | [P |] | [P [F |] | [P |] | [x |] *] | | |
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| SUBSYSTE MDAC ID: | | | | EPD 621 DIO | | 'ION | | | | | | | | |
| LEAD ANALYST: K. SCHMECKPEPER | | | | | | | | | | | | | | |
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| | CR: | | | ITY | 1 | REDUN | IDANC | SCR | EENS | | CII | ٺ | | |
| | LIGH N/FU | T NC | 1 | A | В | | (| 2 | ITEM | | | | | |
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| | CRI | | CAL | YTI | RI | REDUNDANCY SCR | | | | REENS | | | | |
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| SUBSYSTE MDAC ID: | M: | | EPD& 6217 DIOD | - | SOLAT | 'ION | | | | | | |
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| SUBSYSTE MDAC ID: ITEM: | 621 | PPD&C 5218 DIODE, ISOLATION | | | | | | | | | | | | | | |
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| CRITICALITY FLIGHT | | | | | TY REDUNDANCY S | | | | | | | | | CIL ITEM | | |
| | HDW/FU | | | NC | | A | | В | | 1 | С | | | | | |
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| SUBSYSTE MDAC ID: | | | EPD&6 6219 DIODI | | OLAT | 'ION | | | | | | | |
| LEAD ANA | LYS | T: | K. S | CHMEC | KPEP | ER | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | |
| | | TICAL: | r | | | DANCY B | Y SCREENS | | | | CIL ITEM | | |
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| SUBSYSTE MDAC ID: | | | | EPD 622 DIO | | SOLAT | ION | | | | | | |
| LEAD ANALYST: K. SCHMEO | | | | | | | ER | | | | | | |
| ASSESSME | NT | : | | | | | | | | | | | |
| | LIGH | | 1 | | DANCY B | Y SCREENS B C | | | | CIL ITEM | | | |
| | | ועה | /FU | NC | | | | | | • | | | |
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| COMPARE | [| | / | 3 | [|] | [|] | [|] | [|] | |
| RECOMMEN | DA! | ric | ons: | (| If di | ffere | nt fr | om 1 | NASA) | | | | |
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| LEAD ANA | LYSI | ?: | K. SC | HMEC | KPEP | ER | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | |
| | | CICAL | | | | | | ENS | | | CIL | | |
| | FLIGH HDW/FU | | | | | В | | c | : | ITEM | | | |
| NASA IOA | [3 | 3 /3 |] | [|] | [|] | [|] | [|] *] | | |
| COMPARE | [| / | 3 | [|] | [|] | [|] | [|] | | |
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| * CIL RE | TENT | 'ION | RATION | ALE: | (If | appl | icabl | À | DEQUATI | • |] | | |
| REMARKS: | | | | | | | | | | - L | 1 | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/19/87 EPD&C-6222 05-6-2200-1 | | BASELINE NEW | | |
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| | EPD&C 6222 DIODE TO INV 3 | A | | | |
| LEAD ANALYST: | K. SCHMECKPEPER | ₹ | | | |
| ASSESSMENT: | | | | | |
| CRITICALI FLIGHT HDW/FUN | יי | ANCY SCREI B | ens C | CIL | 1 |
| NASA [3 /3 IOA [3 /3 |] [] | [] | [] | [|] * |
| COMPARE [/ |] [] | [] | [] | [|] |
| RECOMMENDATIONS: | (If different | t from NAS | SA) | | |
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| * CIL RETENTION I | RATIONALE: (If a | applicable | ADEQUATE | [|] |

| ASSESSMENT DATE: 6/19/87 ASSESSMENT ID: EPD&C-6223 NASA FMEA #: 05-6-2200-1 | | | | | | | | } | NASA BASE | LINE | - |] |
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| SUBSYSTE MDAC ID: | | | EPD8 6223 DIOI | | INV | 3 B | | | | | | |
| LEAD ANA | LYST | r: | к. s | СНМЕС | KPEF | PER | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | |
| | | PICAL | | F | REDUN | IDANCY | SCR | EENS | | | CII | _ |
| | | FLIGH DW/FU | | | | | | (| | ITE | EM | |
| NASA IOA | [3 | 3 /3 |] | [|] | [|] | [|] | | [|] * |
| COMPARE | [| / | 3 | [|] | [|] | [|] | | [| 3 |
| RECOMMEN | DATI | cons: | (1 | f dif | fere | nt fr | om N | ASA) | | | | |
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| * CIL RE | TENT | rion | RATIC | NALE: | (If | appl | icab | - | ADEQU | ATE | ſ | 1 |
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| ASSESSMENT ASSESSMENT NASA FMEA | T ID: | 6/19/8 EPD&C- 05-6-2 | -6224 | | | | ASA DAT BASELIN NE | |] | |
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| SUBSYSTEM MDAC ID: ITEM: | : | EPD&C 6224 DIODE | TO I | INV 3 | В | | | | | |
| LEAD ANAL | YST: | K. SCI | HMECI | KPEPE | R | | | | | |
| ASSESSMEN | T: | | | | | | | | | |
| С | RITICAI FLIGH | | RI | EDUND | ANCY | SCRE | ENS | | CIL | wf |
| | HDW/FU | | A | | В | | С | | 110 | :▲ |
| NASA IOA | [3 /3 |] | [|] | [[|] | [|] | [|] * |
| COMPARE | [/ |] | [|] | [|] | [|] | [|] |
| RECOMMEND | ATIONS: | (If | dif: | feren | t fr | om NA | SA) | | | |
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| * CIL RET | ENTION | RATION | ALE: | (If | appl | icabl | A | DEQUATE DEQUATE | |] |

| ASSESSMENT DATE: 6/19/87 ASSESSMENT ID: EPD&C-6225 NASA FMEA #: 05-6-2200-1 | | | | | | | | N | IASA DA' BASELII NI | NE [|] x] |
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| SUBSYSTIMDAC ID: | | | EPD 622 DIO | | INV | 3 C | | | | | |
| LEAD AN | ALY | ST: | ĸ. | SCHME | CKPEI | PER | | | | | |
| ASSESSMI | ENT | : | | | | | | | | | |
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| | 1 | HDW/F | UNC | A | A | В | | C | | | |
| NASA IOA | [| 3 /3 3 /3 |] | [|] | [|] | [|] | ָ [|] * |
| COMPARE | [| / |] | [|] | [|] | [|] | [|] |
| RECOMMEN | IDA! | rions | : (| If di | ffere | ent fr | om 1 | NASA) | | | |
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| * CIL RI | ETEI | NTION | RATI | ONALE: | (If | appl | ical | A | DEQUATE DEGUATE | - |] |

| ASSESSMEI ASSESSMEI NASA FME | T | IL | | EPD8 | /87 6C-622 5-2200 | | | | | ASA DATA BASELINI NEV | |] |
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| SUBSYSTEM MDAC ID: | M: | | | EPD8 6220 DIOI | | INV : | 3 C | | | | | |
| LEAD ANA | LYS | ST | : | к. я | SCHMEC | KPEP | ER | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | |
| | CR. | | ICAL LIGH | | F | EDUN | DANCY | SCR | EENS | | CII | |
| | 1 | | /FU | | 2 | L | В | | C | | | |
| NASA IOA | [| 3 | /3 /3 |] | [[|] | ([|] | [|] |] |] * |
| COMPARE | [| | / |] | [|] | [|] | [|] | [|] |
| RECOMMEN | DA' | TI | ons: | . (| If di | ffere | nt fr | om N | IASA) | | | |
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| * CIL RE | ETE | NT | ION | RATI | ONALE | : (If | appl | icak | | ADEQUATE ADEOUATE | |] |

| ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-6227 NASA FMEA #: 05-6-2346-1 | | | | | | | | | NASA BASE | LINE | | у х ј | |
|---|-------|----------------|-------------------|--------|-------|--------|------|-------|--------------|-------------|-----------|-----------------|----|
| SUBSYSTI MDAC ID ITEM: | | | EPD 622 RES | | , 5.1 | LK 1/4 | w (1 | O MD | M OF3 | ·) | | | |
| LEAD AND | ALYS | T: | ĸ. | SCHME | CKPEI | PER | | | | | | | |
| ASSESSMI | ENT: | | | | | | | | | | | | |
| | | TICAL FLIGH | | 1 | REDUN | IDANCY | SCF | REENS | | | CI | | |
| | | DW/FU | | 1 | A | E | 3 | • | C | | IT | EM | |
| NASA IOA |] | 3 /3 3 /3 |] | [|] | [|] | [|] | | [|] | * |
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| RECOMMEN | IDAT: | ions: | (: | If dif | fere | nt fr | om N | ASA) | • | | | | |
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| * CIL RE | TEN | TION : | RATIO | ONALE: | (If | appl | icab | | DEQU. | አ ጥድ | r | 1 | |
| DEWIDEG. | | | | | | | | | DEQU | | [|] | |

| ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-6228 NASA FMEA #: 05-6-2346-1 | | | | | | | | N | IASA I BASEI | | [|] | |
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| SUBSYSTE MDAC ID: | | | EPD 6228 RES | | 5.1 | K 1/4 | W (T | O MDM | OF3) |) | | | |
| LEAD ANA | LYS | T: | к. : | SCHMEC | KPEP | ER | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | |
| | CRI | TICAL FLIGH | | F | EDUN | DANCY | | | | | CII | | |
| | H | IDW/FU | INC | A | ١ | F | 3 | C | 3 | | | | |
| NASA IOA |] [| 3 /3 3 /3 |] |] |] | [|] | [|] | | [|] ' | k |
| COMPARE | ĺ | / |] | [|] | [|] | [|] | | { |] | |
| RECOMMEN | [AGI | CIONS: | (| If dif | fere | nt fi | com N | ASA) | | | | | |
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| * CIL RE | ETEN | TION | RATI | ONALE: | (If | appl | licab | 1 | ADEQUA ADEQUA | | [|] | |

| ASSESSM NASA FM | ENT : | ID: | EPD | C-62 | | | | | NASA DATA BASELINI NEV | |] K] |
|------------------------------|--------------------|--------------|----------------------|--------|-------|-------|-------|-------|------------------------------|------------|-----------------|
| SUBSYST: MDAC ID ITEM: | | | EPD8 6229 RESI | • | , 5.1 | K 1/4 | w (T | O MDI | 4 OF3) | | |
| LEAD AN | ALYS' | r: | к. s | SCHME | CKPEP | ER | | | | | |
| ASSESSM | ENT: | | | | | | | | | | |
| | | PICAL | | 1 | REDUN | DANC | SCR | EENS | | CII | |
| | FLIGHT HDW/FUNC | | 1 | A | F | В | | 2 | ITEM | | |
| NASA IOA | [: | 3 /3 3 /3 |] | [[|] | [|] | [|] | [|] *] |
| COMPARE | [| / |] | [|] | [|] | [|] | [|] |
| RECOMME | NDAT: | ions: | (1 | f di | ffere | nt fi | om N | ASA) | | | |
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| * CIL R | ETEN: | rion | RATIO | NALE: | : (If | app] | licab | - | | | |
| | | | | | | | | | ADEQUATE | [|] |

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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/06/87 EPD&C-6230 05-6-2390- | | | BASELINI NEV | |] |
|--|-------------------------------------|-----------|---------|-----------------------------|------------|----------------|
| | EPD&C 6230 RPC, 7.5A | TO INV 3 | A | | | |
| LEAD ANALYST: | K. SCHMECI | KPEPER | | Ť | | |
| ASSESSMENT: | | | | | | |
| CRITICAL FLIGH | | EDUNDANCY | SCREE | NS | CIL | |
| HDW/FU | | В | | С | | · - |
| NASA [3 /3 IOA [3 /3 |] [|] [|] | [] | [[|] *] |
| COMPARE [/ |] [|] [|] | [} | [| } |
| RECOMMENDATIONS: | (If dif | ferent fr | om NAS. | A) | | |
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| * CIL RETENTION | RATIONALE: | (If appl | |) ADEQUATE INADEQUATE | - |] |
| REMARKS: | | | | 1111000001111 | L | ı |

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| ASSESSMEINASA FMEINASA FMEINAS FMEI | NT A # | ID: : | 6/06/ EPD&C 05-6- EPD&C 6231 RPC, | :-623 :2390 : | -1 | TNV 3 | .) | | NASA DA: BASELII NI | | x] |
|--|-----------|---------------------------|--|---------------------|------|------------|------------|-----|---------------------------|------------|-------------|
| LEAD ANA | LYS | ST: | | | | | | | | | |
| ASSESSME | NT: | : | | | | | * | | | | |
| • | | TICAL: FLIGH IDW/FU | T | R: A | | DANCY B | SCRE | | 3 | CI | |
| NASA IOA | [| 3 /3 3 /3 |] | [|] | [|] | [|] | [|] *] |
| COMPARE | [| / | 1 | ι |] | [|]. | [|] | Ε | ָן |
| RECOMMEN | DAT | CIONS: | (If | dif | fere | nt fr | om NA | SA) | | | |
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| * CIL RET | ren | TION 1 | RATION | ALE: | (If | appl: | icabl | 7 | ADEQUATE | |] |

| ASSESSMENT ASSESSMENT NASA FMEA # | ID: | 6/06/8 EPD&C- 05-6-2 | -6232 | | | | | ASA DA BASELI N | NE | |] | |
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| SUBSYSTEM: MDAC ID: ITEM: | | EPD&C 6232 RPC, 7 | 7.5A | TO I | NV 3 | В | | , | | | | |
| LEAD ANALYS | T: | K. SCH | IMECE | (PEPE | R | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | |
| | TICAL | | RI | EDUND | ANCY | SCREI | ens | | | CII | _ | |
| | FLIGHT DW/FUI | | A | | В | | С | | | | 11.1 | |
| NASA [IOA [| 3 /3 3 /3 |] | [|] | [|] | [|] | | [|] * | t |
| COMPARE [| / | 1 | [|] | [|] | [|] | | [|] | |
| RECOMMENDAT | ions: | (If | dif | feren | t fr | om NA | SA) | | | | | |
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| * CIL RETEN | TION 1 | RATION! | ALE: | (If | appl | icabl | A | DEQUAT DEQUAT | | [|] | |
| REMARKS: | | | | | | | | | | • | - | |

| ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-6233 NASA FMEA #: 05-6-2390-1 | | | | | | | | 1 | NASA D BASEI | INE | | ;] ;] |
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| SUBSYSTE MDAC ID: | | | EPD&6 6233 RPC, | | V TO | INV 3 | В | | | | | |
| LEAD ANA | LYS | ST: | K. S | CHMEC | KPEP | ER | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | |
| | | TICAL FLIGH | T | F | | DANCY | | | - | | CII | - |
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| NASA IOA |] | 3 /3 3 /3 |] | [|] | [|] | [|] | | [[|] *] |
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| RECOMMEN | DAT | cions: | (I: | f dif | fere | nt fr | om N | ASA) | | | | |
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| * CIL RE | TEN | TION 1 | RATIO | NALE: | (If | appl | icab | 1 | ADEQUA ADEQUA | | [|] |

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| ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-6234 NASA FMEA #: 05-6-2390-2 | | | | | | | | NASA DATA: BASELINE [] NEW [X] | | | | | | | | | |
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| SUBSYSTEMDAC ID: | | | | EPD 623 RPC | 4 | A TO | INV 3 | С | | | | | | | | | |
| LEAD ANA | LY | ST | : | к. : | SCHMEC | KPEF | PER | | | | | | | | | | |
| ASSESSMI | ENT | : | | | | | | | | | | | | | | | |
| | | F | ICAI LIGH W/FU | | F A | | idancy B | SCR | EENS | : | CII ITI | | | | | | |
| NASA IOA | [| 3 | /3 /3 |] |] |] | [|] | [|] | [|] | * | | | | |
| COMPARE | [| | / |] | [|] | |] | [|] | [|) | | | | | |
| RECOMMEN | IDA' | TI | ons: | (: | If dif | fere | ent fr | om N | (ASA) | | | | | | | | |
| | [| : | / |] | |] | [|] | [|] | [(ADD/1 |] DELI | ETE) | | | | |
| * CIL RI | ETE: | NT | ION | RATI(| ONALE: | (If | appl | icab | P | ADEQUATI | - |] | | | | | |

| ASSESSMENT DATE: 6/06/8/ ASSESSMENT ID: EPD&C-6235 NASA FMEA #: 05-6-2390-1 | | | | | | | | NASA DATA: BASELINE [] NEW [X] | | | | | | |
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| SUBSYSTE MDAC ID: | | | EPD 623! RPC | | . TO | INV 3 | C | | | | | | | |
| LEAD ANA | LYS | ST: | к. 5 | SCHMEC | KPEP | ER | | | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | | |
| | | TICAL FLIGH HDW/FU | T | F A | | DANCY | | | 2 | CII | | | | |
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| NASA IOA | [| 3 /3 3 /3 |] | [|] | [|] | [|] | [|] *] | | | |
| COMPARE | [| / |] | . [|] | [|] | [|] | , [|] | | | |
| RECOMMEN | DA'I | rions: | (| If dif | fere | nt fr | om N | ASA) | | | | | | |
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| * CIL RE | TE | NTION | RATIO | ONALE: | (If | appl | .icab | 1 | ADEQUATI | - |] | | | |

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| ASSESSMENT DA ASSESSMENT II NASA FMEA #: | | 236 | NASA DATA: BASELINE [] NEW [X] | | | | | | |
|--|-------------------------|------------------|---|------------|-------------------|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6236 RELAY, | LATCHING | TO INVERT | ER 3A | | | | | |
| LEAD ANALYST | K. SCHI | MECKPEPER | | | | | | | |
| ASSESSMENT: | | | | | | | | | |
| F | LIGHT | REDUNDAI | NCY SCREEN | rs C | CIL ITEM | | | | |
| NASA [3 IOA [3 | /1R] /1R] | [P] [P] | [P] [[P] [| P] P] | [] * | | | | |
| COMPARE [| / 1 | | [] [| 1 | [] | | | | |
| RECOMMENDATIO | ONS: (If o | lifferent | from NASA | () | | | | | |
| Ţ | /] | [] | [] [|] (AI | [] DD/DELETE) | | | | |
| * CIL RETENT | ION RATIONA | LE: (If a | | ADEQUATE | [] | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/04/87 EPD&C-6237 05-6-2139-2 | NASA DATA: BASELINE [] NEW [X] | | | | | | |
|--|--------------------------------------|---|-------------------|--|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6237 RELAY, LATCHING TO | INVERTER 3A | | | | | | |
| LEAD ANALYST: | K. SCHMECKPEPER | | | | | | | |
| ASSESSMENT: | | | | | | | | |
| CRITICAL: FLIGH | | SCREENS | CIL ITEM | | | | | |
| HDW/FU | NC A I | B C | | | | | | |
| NASA [3 /1R IOA [3 /3 |] [P] [I | '] [P] | [X] * | | | | | |
| COMPARE [/N |] [N] [N | [и] [и | [N] | | | | | |
| RECOMMENDATIONS: | (If different fr | om NASA) | | | | | | |
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| * CIL RETENTION 1 | RATIONALE: (If appl | icable) ADEQUATE INADEQUATE | | | | | | |
| REMARKS: IOA CONCURS WITH THE CIRCUIT | NASA'S REEVALUATIO | | | | | | | |

| ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-6238 NASA FMEA #: 05-6-2139-2 | | | | | | | NASA DATA: BASELINE [] NEW [X] | | | | | | | |
|---|---|-----------|------------------------|-------------|-------|--------|-----------------------------------|------|--------|-----|----------|-----|------------|------|
| SUBSYSTEM: MDAC ID: ITEM: | } | | EPD&C 6238 RELAY | , L | ATCHI | NG TO | INVE | RTER | 3B | | | | | |
| LEAD ANALY | ST: | | K. SC | HME | CKPEP | ER | | | | | | | | |
| ASSESSMENT | r: | | | | | | | | | | | | | |
| CF | CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM | | | | | | | | | | | | | |
| | HDW, | | | 1 | A | В | | С | | | 11 | Lin | | |
| NASA [IOA [| [3 , | /1R /3 |] | [] | P] | [F |] | [P |] | | [| X |] * | |
| COMPARE [| [, | /N |] | [] | 4] | [N |] | [N |] | | [| N |] | |
| RECOMMENDA | ATIO | NS: | (If | di : | ffere | nt fro | om NA | SA) | | | | | | |
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| * CIL RETE | ENTI | ON I | RATION | ALE | : (If | appl | icabl | A | DEQUAT | | [| x |] | |
| REMARKS: IOA CONCUE | | ITH | NASA' | s R | EEVAL | IOITAU | N AFI | | ~ | | L KAM | IIN | J ATIO | N OI |

| ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-6239 NASA FMEA #: 05-6-2139-1 | | | | | | NASA DATA: BASELINE [] NEW [X] | | | | | | | | | | | | | |
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| SUBSYSTE MDAC ID: | | | | 62 | PD&C 39 LAY | , : | LA: | гсн | ING | ;] | ro | IN | VERI | ER | . 3B | | | | |
| LEAD ANA | LY | ST | : | ĸ. | SCI | HM | ECI | KPE | PER | | | | | | | | | | |
| ASSESSME | ENT | : | | | | | | | | | | | | | | | | | |
| | | F | ICAL: LIGH W/FU | r | | | RI A | EDU | NDA | NO | CY B | sc | REEN | is C | | | CII | | |
| NASA IOA | [| 3 | /1R /1R |] | | [| P P |] | | <u>[</u> | P P |] | [| P |] | | [|] | * |
| COMPARE | [| | / |] | | [| |]. | | [| |] | [| |] | | [|] | |
| RECOMMEN | IDA! | ri | ons: | | (If | d : | ifi | fer | ent | 1 | fro | m | NASA | (۱ | | | | | |
| | [| | / |) | | [| |] | | [| |] | (| |] | (A | [DD/I |) DEL | ETE |
| * CIL RE | TE | NT: | ION 1 | RAT | 'ION | AL | Ε: | (I | fa | pp | oli | ica | · | A | DEQU <i>A</i> DEQU <i>A</i> | |] |] | |

| ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-6240 NASA FMEA #: 05-6-2139-1 | | | | | | | | | | | | ASA DA' BASELII N | NE | | | | | | | |
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| SUBSYSTE MDAC ID: | | | | 62 | PD&C 40 LAY, | ,] | LAT | rchi: | NG | T | 0 | INV | ERT | ER | 3C | | | | | |
| LEAD ANA | LYS | ST | : | ĸ. | SCI | IMI | ECI | KPEP | ER | | | | | | | | | | | |
| ASSESSMI | ENT | : | | | | | | | | | | | | | | | | | | |
| | | F | ICAL: LIGH' W/FU | r | | | RI A | EDUN | DAI | | Y B | SCR | EEN | s c | | | CII | | | |
| NASA IOA | | | • | | | [| P P |] | | ((| P P |] | [| P P |] | | [|] | | * |
| COMPARE | [| | / | } | | [| |] | | [| |] | [| |] | | ſ |] | Ì | |
| RECOMME | NDA' | TI | ons: | | (If | d : | if | fere | nt | f | ro | om N | ASA |) | | | | | | |
| | [| | / |] | | [| |] | | [| |] | [| |] | (Al | [DD/I |) EI | Œ | TE) |
| * CIL R | ETE: | NT | ION : | RAT | ION | AL | Е: | (If | a] | рþ | 11 | cab | | | DEQUAT DEOUAT | | - |] |] | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | | | NASA DATA: BASELINE [] NEW [X] | | | | | | |
|--|-----------------------------|----------------|-----------------------------------|------------------|--|--|--|--|--|
| | EPD&C 6241 RELAY, LAT | CHING TO INV | ERTER 3C | | | | | | |
| LEAD ANALYST: | K. SCHMECK | (PEPER | | | | | | | |
| ASSESSMENT: | | | | | | | | | |
| CRITICAL: FLIGHT | r | DUNDANCY SCR | | CIL ITEM | | | | | |
| HDW/FU | NC A | В | С | | | | | | |
| NASA [3 /1R IOA [3 /3 |] [P |] [F] | [P] [] | [X] * [] | | | | | |
| COMPARE [/N |] [N |] [N] | [N] | [N] | | | | | |
| RECOMMENDATIONS: | (If diff | erent from N | ASA) | | | | | | |
| [/ |] [|] [] | [] | [ADD/DELETE) | | | | | |
| * CIL RETENTION I | RATIONALE: | (If applicab | le) ADEQUATE INADEQUATE | | | | | | |
| REMARKS: IOA CONCURS WITH THE CIRCUIT. | NASA'S REE | VALUATION AF | TER FURTHER | EXAMINATION O | | | | | |

| ASSESSMENT I ASSESSMENT I NASA FMEA #: | D: EPD&C- | -6242 | NASA DATA: BASELINE [] NEW [X] | | | | | | |
|--|-------------------------------|----------------|-----------------------------------|------------------------------|-------------------|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6242 INVER | TER 3 A | | | | | | | |
| LEAD ANALYST | K. SCI | imeckpepe | R | | | | | | |
| ASSESSMENT: | | | | | | | | | |
| F | CICALITY CLIGHT OW/FUNC | REDUNI A | B B | ENS C | CIL ITEM | | | | |
| NASA [3 | 1 /1R] 1 /1R] | [P] [P] | [P] [P] | [P] [P] | [] * | | | | |
| COMPARE [| / 1 | [] | [] | [] | [] | | | | |
| RECOMMENDATI | CONS: (If | differer | nt from NA | SA) | | | | | |
| ţ | /] | [] | [] | [] | [(ADD/DELETE) | | | | |
| * CIL RETENT | TION RATION | ALE: (If | applicabl | e) ADEQUATE INADEQUATE | - | | | | |

| ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-6243 NASA FMEA #: 05-6-2015-2 | | | | | | | |] | NASA DA BASELI N | | x] | |
|---|-----|---------------|-------------------|-------|-------|--------|-------|------|------------------------|------------|------------|---|
| SUBSYSTE MDAC ID: | | | EPD 624 INV | | 3 A | | | | | | | |
| LEAD ANA | LYS | ST: | K. | SCHME | CKPEI | PER | | | | | | |
| ASSESSME | NT: | • | | | | | | | | | | |
| | CR: | | LITY | 1 | REDUN | IDANC | SCR | EENS | | CI | | |
| | I | FLIC HDW/F | | 1 | A | 1 | 3 | (| TT | ITEM | | |
| NASA IOA | [| 3 /3 3 /3 |] . | [|] |] [|] | [|] | [[|] *] | |
| COMPARE | [| / |] | [|] | [|] | [|] | [|] | |
| RECOMMEN | DA' | CIONS | i: (| If di | ffere | ent fi | com N | ASA) | | | | |
| | [| / |] | [|] | [|] | (|] | [(ADD/ |] DELET | E |
| * CIL RE | TEI | NOIT | RATI | ONALE | : (If | appl | licab | 1 | ADEQUAT ADEQUAT | • |] | |
| · CANDENIA | | | | | | | | | | | | |

| ASSESSMENT DATE: 12/15/87 ASSESSMENT ID: EPD&C-6244 NASA FMEA #: 05-6-2015-3 | | | | | | | | | | | | | DAI ELIN NE | ΙE | | |] | | | | |
|--|------|-----|----------------|-----|-------------------|-----|--------|------|-----|--------|---------|------|-------------------|--------|---|--------------|--------------|----------|----------|----------|------|
| SUBSYSTE MDAC ID: ITEM: | | | | 62 | D&C 44 VERT | ľEI | R 3 | з А | | | | | | | | | | | | | |
| LEAD ANA | LYS | ST | : | ĸ. | SCI | IMI | ECI | KPE | PER | t | | | | | | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | | | | | | | | | |
| | CR | | [CAL] LIGH! | | | | RI | EDU: | NDA | NO | CY | SCF | REEN | 5 | | | | CI | L PEM | ſ | |
| | I | | /FUI | | | | A | | | | В | | | С | | | | | | | |
| NASA IOA | | | /1R /1R |] | | [| P P |] | | [[| NA P | A] | [| P P |] | | |] | |] | * |
| COMPARE | [| | / |] | | [| |] | | [| N |] | [| |] | | | [| |] | |
| RECOMMEN | IDA! | ΓI¢ | ons: | | (If | d. | if: | fer | ent | : : | fro | om 1 | ASA |) | | | | | | | |
| | [| | / |] | | [| |] | | [| | 1 | C | |] | (| (A l | l DD/ | /DF |] ELE | ETE) |
| * CIL RE | | NT: | ION 1 | RAT | ION | AL | E: | (I | fa | p | pl: | ical | | | | UATI UATI | | | |] | |
| IOA CONC | UR | S 1 | WITH | NA | SA | S | SC | REE | N ' | 'B' | ٠. | | | | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/04/87 EPD&C-6245 05-6-2015-4 | | NASA DATA: BASELINE [] NEW [X] | | | | | | | | |
|---|--------------------------------------|--------------------|---|-------------------|--|--|--|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6245 INVERTER 3 | A | | | | | | | | | |
| LEAD ANALYST: | K. SCHMECKE | PEPER | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM | | | | | | | | | | | |
| HDW/FU | | В | С | | | | | | | | |
| NASA [2 /1R IOA [3 /1R |] [P] | [P] [[P] [| P] P] | [X] * | | | | | | | |
| COMPARE [N / |] [] | [] [|] | [и] | | | | | | | |
| RECOMMENDATIONS: | (If diffe | erent from NASA) | | | | | | | | | |
| [/ |] [] | [] .[| | [] DD/DELETE) | | | | | | | |
| * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE [] | | | | | | | | | | | |
| EMARKS: OA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT. | | | | | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 12/05/87 EPD&C-6245A 05-6-2015-5 | | NASA DATA: BASELINE NEW | |
|--|--|---------------------|-------------------------------|-----------------|
| | EPD&C 6245 INVERTER 3 | A | | |
| LEAD ANALYST: | K. SCHMECKP | EPER | | |
| ASSESSMENT: | | | | |
| CRITICAL: FLIGHT HDW/FUI | T | UNDANCY SCREED B | ns C | CIL ITEM |
| NASA [2 /1R IOA [2 /1R |] [P] | [P] [P] | [P] [P] | [X] * |
| COMPARE [/ |] [] | [] | [] | [] |
| RECOMMENDATIONS: | (If diffe | rent from NAS | A) | |
| [/ |] [] | [] | [] (A) | [DD/DELETE) |
| * CIL RETENTION DREMARKS: | RATIONALE: (| |) ADEQUATE INADEQUATE | [x] |

| ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-6246 NASA FMEA #: 05-6-2015-1 | | | | | | | | | | | | | ASA DA' BASELII N | NE | ((X |] | | | |
|---|------|--------------|--------------|-----|----------------------|-----|--------|-------|-----|-----|--------|-------|-------------------------|--------|----------|-----|----------|----------|------|
| SUBSYSTIMDAC ID: | | | | 62 | PD&C 246 IVERT | ľEl | R : | 3 B | | | | | | | | | | | |
| LEAD AND | ALYS | ST | : | ĸ. | SCI | IMI | ECI | KPEPI | ER | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | | | | | | | | |
| | CR | | ICAL LIGH | | 7 | | RI | EDUNI | DAI | 1C | Y | SCRE | EN | 5 | | | CIL | | |
| | I | | W/FU | | | | A | | | 1 | В | | | С | | | | 1-1 | |
| NASA IOA | [| 3 | /1R /1R |] | | [| P P |] | | [] | P P |] |] | P P |] | | [|] | * |
| COMPARE | [| | / |] | | [| |] | 1 | [| |] | [| |] | | [|] | |
| RECOMMEN | NDA? | ric | ons: | | (If | d: | ifí | fere | nt | fı | rc | m NA | SA |) | | | | | |
| | [| | / |] | | [| |] | (| | |] | [| |] | (AE | [D/D |] ELF | ETE) |
| * CIL RI | ETEI | n T : | ION 1 | RAT | NOI | LI | E: | (If | aŗ | g | li | .cabl | · | | DEQUATI | | [|] | |

| ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-6247 NASA FMEA #: 05-6-2015-2 | | | | | | | | | Ň | IASA I BASEI | | [|] | |
|---|-----|--------|--------------|-------------------|--------|------|--------|-------|--------|------------------|----|-----------|-----------|-----|
| SUBSYST MDAC ID ITEM: | | | | EPD 624 INV | | 3 B | | | | | | | | |
| LEAD AN | ALY | ST | • | K. : | SCHMEC | KPEP | PER | | | | | | | |
| ASSESSM | ENT | : | | | | | | | | | | | | |
| | CR | | ICAI LIGH | | R | EDUN | IDANCY | SCR | EENS | | | CII | | |
| | 1 | | W/FU | | A | | В | | (| 2 | | | | |
| NASA IOA | [| 3 3 | /3 /3 |] | [|] | [|] | [[|] | | [|] | * |
| COMPARE | [| | 1 |] | [|]. | [|] | [|] | | [|] | |
| RECOMME | NDA | TI | ONS: | (| If dif | fere | ent fr | om N. | ASA) | | | | | |
| | [| | / |] | [|] | [|] | [|] | (A | [DD/1 |) DELE | TE) |
| * CIL R | | NT | ION | RATI | ONALE: | (Ii | f appl | icab | | ADEQUA ADEQUA | | [|] | |
| REMARKS | : | | | | | | | | | | | | | |

| ASSESSMENT DAY ASSESSMENT ID: NASA FMEA #: | EPD&C | -6248 | | NASA DA BASELI N | | | | | | | | |
|--|------------------------|-------------------------------------|-----------|-------------------------------|---------------------|--|--|--|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6248 INVER | e RTER 3 B | | | | | | | | | | |
| LEAD ANALYST: | K. SC | HMECKPEP | ER | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS FLIGHT HDW/FUNC A B C | | | | | | | | | | | | |
| HDW, | FUNC | A | | | | | | | | | | |
| NASA [3 / | '1R] '1R] | NC A B C [P] [NA] [P] [P] [P] [P] | | | | | | | | | | |
| COMPARE [| '] . | [] | [и] | [] | [] | | | | | | | |
| RECOMMENDATION | ıs: (If | differe | nt from N | ASA) | | | | | | | | |
| [/ | '] | [] | [] | [] | [] (ADD/DELETE) | | | | | | | |
| * CIL RETENTION REMARKS: | | · | | le) ADEQUATI INADEQUATI | | | | | | | | |
| IOA CONCURS WI | TH NASA' | S SCREEN | "B". | | | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/04/87 EPD&C-6249 05-6-2015-4 | | NASA DATA: BASELINE NEW | |
|--|--------------------------------------|--------------------|-------------------------------|-------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6249 INVERTER 3 B | | | |
| LEAD ANALYST: | к. зснмескре | PER | | |
| ASSESSMENT: | | | | |
| CRITICAL | | NDANCY SCREENS | 3 | CIL ITEM |
| FLIGH HDW/FUI | | В | С | TIDA |
| NASA [2 /1R IOA [3 /1R |] [P]] [P] | [P] [[P] [| P] P] | [X] * |
| COMPARE [N / |] [] | [] [| 1 | [N] |
| RECOMMENDATIONS: | (If differ | ent from NASA |) | |
| 1 |] [] | [] [|] (A) | [] DD/DELETE) |
| * CIL RETENTION | RATIONALE: (I | | ADEQUATE NADEQUATE | |
| REMARKS: IOA CONCURS WITH THE CIRCUIT. | NASA'S REEVA | LUATION AFTER | FURTHER E | XAMINATION OF |

| ASSESSMI ASSESSMI NASA FMI | ENT | I | | EF | D&C | -6 | 249 | | | | | | | | | ASA DAT BASELII N | | [| x |] | |
|----------------------------------|---------------|-----|------------|-----|---------------------|-----|--------|-------|----|----|--------|---------------|------|----|--------|-------------------------|-----|----------|-----------|----------|------|
| SUBSYSTI MDAC ID: ITEM: | | | | 62 | PD&C 249 IVER | re: | R : | 3 B | | | | | | | | | | | | | |
| LEAD AN | ALY | ST | : | ĸ. | SCI | IMI | EC1 | KPEPI | ER | | | | | | | | | | | | |
| ASSESSMI | ENT | : | | | | | | | | | | | | | | | | | | | |
| | CR | | ICAL: | | ? | | RI | EDUNI | DA | NC | CY | SC | REE | NS | 3 | | | | IL PEN | ví | |
| |] | HD | W/FUI | NC | | | A | | | | В | | | | С | | | | | - | |
| NASA IOA | | | /1R /1R | | |] | P P |] | |] | P P |] | | [| P P |] | | [| X X |] | * |
| COMPARE | [| | / |] | | [| |] | | [| |] | | [| |] | | [| |] | |
| RECOMMEN | NDA! | TI | ons: | | (If | d: | if | fere | nt | f | ro | m | NAS. | A) | | | | | | | |
| | [| | / |] | | [| | 3 | | [| | 1 | | [| | | (AI | [,do | /DI |] ELF | ETE) |
| * CIL RI | e te i | NT: | ION 1 | RAT | NOI | ALI | Ε: | (If | a | pp | ol i | i ca i | | • | | DEQUATI | | [| x |] | |

| ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-6250 NASA FMEA #: 05-6-2015-1 | | | | | | | | | | | | | | ASA BASE | | 3 | [[| x |] | | | |
|---|------|-----|------------|-----|------------------|------------|--------|-----|-----|-----|-------------|-----|------|-------------|--------|--------------|--------|----|----|----------|----------|-----|
| SUBSYSTE MDAC ID: | | | | 62 | D&C 50 VER | rei | R S | вс | | | | | | | | | | | | | | |
| LEAD ANA | LY | ST | : | ĸ. | SCI | HIMI) | ECI | (PE | PER | 1 | | | | | | | | | | | | |
| ASSESSME | NТ | : | | | | | | | | | | | | | | | | | | | | |
| | | F | ICAL | r | ? | | | EDU | NDA | N | CY B | sc | CREE | NS | c | | | | C] | IL EM | 1 | |
| | J | HD | W/FUI | NC | | | A | | | | D | | | | C | | | | | | | |
| NASA IOA | | | /1R /1R | | | [| P P |] | |] | P P |] | | [| P P |] | | | [| |] | * . |
| COMPARE | [| | / |] | | [| |] | | [| |] | | [| |] | | | [| |) | |
| RECOMMEN | IDA' | TI(| ons: | | (If | d : | if | fer | ent | : 1 | fro | om | NAS | A) |) | | | | | | | |
| | (| | / |] | | [| |] | | [| |] | | [| |] | (2 | AD | | DI |] ELI | ETE |
| * CIL RE | ETE: | NT | ION 1 | RAT | TION | ΑL | E: | (I | fa | ıpı | 01 : | ica | able | | | DEQU DEQU | | | [| |] | |

| ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-6251 NASA FMEA #: 05-6-2015-2 | | | | | | | | | | NASA DA' BASELII N | NE [| x] | |
|---|------|-----|---------------------|-------------------|--------|------|-------------|------|-------|--------------------------|------------|-----|------|
| SUBSYSTE MDAC ID: | | | | EPE 625 INV | | 3 C | | | | | | | |
| LEAD ANA | LYS | ST: | ; | K. | SCHMEC | KPEI | PER | | | | | | |
| ASSESSME | ENT | : | | | | | | | | | | | |
| | | FI | CAL LIGH V/FU | T | R: | | NDANCY B | SCF | | c | CI | L | |
| | , | aD# | 1 / F U | NC | A | | Б | | | C | | | |
| NASA IOA | [| 3 | /3 /3 |] | [|] | [|] | [|] | [|] | * |
| COMPARE | [| | / |] | [|] | [|] | [|] | (| 1 | |
| RECOMMEN | IDA! | ric | ons: | (| If dif | fere | ent fro | om N | NASA) | | | | |
| | [| | / |] | [|] | [|] | [|] | [(ADD/ | DEL | ETE) |
| * CIL RE | CTE | NT1 | ON | RATI | ONALE: | (II | f appl: | icab | ole) | | | | |
| | | | | | | , | | | | ADEQUATI ADEOUATI | _ |] | |

| ASSESSMENT DATE: 12/15/87 ASSESSMENT ID: EPD&C-6252 NASA FMEA #: 05-6-2015- | | | | | SA DA BASELI N | NE | | |
|---|--------|--------|----------------|------------|----------------------|-----|-----------|------------|
| SUBSYSTEM: EPD&C | | | | | | | | |
| MDAC ID: 6252 | _ | | | | | | | |
| ITEM: INVERTER 3 | C | | | | | | | |
| LEAD ANALYST: K. SCHMECK | PEPER | : | | | | | | |
| ASSESSMENT: | | | | | | | | |
| | NCY S | SCREEN | īS | | | CIL | | |
| FLIGHT | | | | | | | ITE | M |
| HDW/FUNC A | | В | | C | | | | |
| NASA [3 /1R] [P IOA [3 /1R] [P |] | [NA] |] [| P |] | | [|] *] |
| . , | • | | | - | | | | |
| COMPARE [/] [|] | [N] |] [| • |] | | [|] |
| RECOMMENDATIONS: (If diff | erent | fro | n NAS <i>i</i> | A) | | | | |
| [/] |] | [|] [| • |] | (A | [DD/D |] ELETE |
| * CIL RETENTION RATIONALE: REMARKS: | (If a | ppli | | ΑI | DEQUAT DEQUAT | | _ |] |
| IOA CONCURS WITH NASA'S SCR | REEN " | 'B". | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/04/87 EPD&C-625 05-6-2015 | | NASA DATA: BASELINE [] NEW [X] | | | | | | | |
|--|-----------------------------------|-----------|-----------------------------------|----------------------|-------------------|--|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6253 INVERTER | 3 C | | | | | | | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | |
| CRITICAL FLIGH | | EDUNDANCY | SCREEN | S | CIL ITEM | | | | | |
| HDW/FU | NC A | . В | } | С | | | | | | |
| NASA [2 /1R IOA [3 /1R |] [P |] [P |] [| P] P] | [X] * [] | | | | | |
| COMPARE [N / |] [|] [|] [|] | [N] | | | | | |
| RECOMMENDATIONS: | (If dif | ferent fr | om NASA |) | | | | | | |
| [/ |] [|) [|] [| | [] DD/DELETE) | | | | | |
| * CIL RETENTION | RATIONALE: | (If appl | · | ADEQUATE | ίχj | | | | | |
| REMARKS: IOA CONCURS WITH THE CIRCUIT. | NASA'S RE | EVALUATIO | | NADEQUATE FURTHER EX | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6253A 05-6-2015-5 | | BASELINE NEW | |
|--|-------------------------------|----------------|---------------------|------------------|
| | EPD&C 6253 INVERTER 3 C | | | |
| LEAD ANALYST: | K. SCHMECKPEPER | 2 | | |
| ASSESSMENT: | | | | |
| CRITICALI FLIGHT | | ANCY SCREE | ens | CIL ITEM |
| HDW/FU | | В | С | _ |
| NASA [2 /1R IOA [2 /1R |] [P] | [P] [P] | [P] [P] | [X] * [X] |
| COMPARE [/ | 1 [] | [] | [] | [] |
| RECOMMENDATIONS: | (If different | t from NAS | SA) | |
| [/ |] [] | [] | [] (A | [.DD/DELETE) |
| * CIL RETENTION 1 | RATIONALE: (If a | applicable | ADEQUATE INADEQUATE | [X] [] |

| ASSESSME ASSESSME NASA FME | ID: | | |] | NASA DA BASELI N | NE | |] | | | | | |
|----------------------------------|--------------------|--------------|-------------------------|-------|------------------------|-------|-------|-----|--------------------|------|-----------|-----|-----|
| SUBSYSTEMDAC ID: | M: | | EPD&C 6254 HYBRII | D DR | IVER | TYPE | III | (AC | BUS 3 | ON) | | | |
| LEAD ANA | LYS' | T: | K. SCI | IMECI | KPEPE | ER | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | |
| • | | TICAL | | RI | EDUNI | DANCY | SCRE | ENS | | | CIL | | |
| | FLIGHT HDW/FUNC | | | | | В | | (| C | ITEM | | | |
| NASA IOA |] | 3 /3 3 /3 |]. | [|] | [|] | [|] | | [|] ; | * |
| COMPARE | [| / |] | [|] | E |] | [| 1 | | [|] | |
| RECOMMEN | DAT | ions: | (If | dif | ferer | nt fr | om NA | SA) | | | | | |
| | [| / |] | [|] | [|] | (|] | (AE | [D/DE | | ΓE) |
| * CIL RE | TEN | TION 1 | RATION | ALE: | (If | appl | icabl | 1 | ADEQUAT ADEQUAT | | [|] | |
| REMARKS: | | | | | | | | | _ ~ | - | | , | |

| | 6/13/87 EPD&C-62 05-6-247 | | | NASA DATA BASELINE NEW | |
|---|---------------------------------|--------------|----------------------|------------------------------|-----------------------|
| MDAC ID: | EPD&C 6255 HYBRID D | ORIVER T | YPE III (| AC BUS 3 ON |) |
| LEAD ANALYST: | K. SCHME | ECKPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL FLIGH HDW/FU | T | REDUNDA A | NCY SCREE B | ens C | CIL ITEM |
| NASA [3 /1R IOA [3 /3 |] [| P] | [NA] [] | [P] [] | [] * |
| COMPARE [/N |] [| N] | [N] | [и] | [] |
| RECOMMENDATIONS: | (If di | ifferent | from NAS | SA) | |
| [/ |] [|] | [] | [] (A) | [DD/DELETE) |
| * CIL RETENTION | RATIONALI | E: (If a | applicable | ADEQUATE | |
| REMARKS: IOA CONCURS WITH INVERTER INPUT P THE RELAY DOES N | OWER WAS | SUPPLIE | TION BECA THROUGH | AUSE IOA THO H A LATCHING | UGHT THE RELAY AND |

| | 6/13/87 | | | | NASA DATA | | |
|------------------|-----------|----------|--------|--------|--------------|----------|-----|
| ASSESSMENT ID: | | | | | | [] | |
| NASA FMEA #: | 05-6-24 | 74-1 | | | NEW | [X] | |
| SUBSYSTEM: | EPD&C | | | | | | |
| | 6256 | | | | | | |
| ITEM: | | DRIVER ' | TYPE | TTT (| AC BUS 3 OF | F۱ | |
| 11211 | III DILID | DRIVER | * | 111 (| AC DOD 5 OF | . , | |
| LEAD ANALYST: | K. SCHM | ECKPEPE | R | | | | |
| ASSESSMENT: | | | | | | | |
| CRITICAL | | REDUND | ANCY | SCREE | ns | CIL | |
| FLIGH | | _ | _ | | _ | ITEM | |
| HDW/FU | NC | A | В | | С | | |
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| RECOMMENDATIONS: | (If d | ifferen | t fro | om NAS | A) | | |
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| * CIL RETENTION | DATTONAT | ₽• /T# · | annl i | aabla | ` | | |
| " CIL RETENTION | KALLONALI | e. (II | appıı | rcapie | ADEQUATE | [X] | |
| | | | | | INADEQUATE | ~ - | |
| REMARKS: | | | | | INADEQUATE | LJ | |
| IOA CONCURS WITH | NASA'S | REEVALU | ATION | I DUE | TO CONCERNS | ABOUT | |
| INADVERTENT POWE | | | | | | | |
| DESIGNATOR SHOUL | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/06/87 EPD&C-625 05-6-2474 | | | NASA DATA: BASELINE [] NEW [X] | | | | | | | | | | |
|--|-----------------------------------|---------|------------|-----------------------------------|-----------------|-------|------------|-------------|--|--|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6257 HYBRID DR | IVER T | PE I | II (A | C BUS | 3 OF | F) | | | | | | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL ITEM | | | | | | | | | | | | | | |
| HDW/FU | | | В | | С | | | | | | | | | |
| NASA [3 /3 IOA [3 /3 |] [|] | [] [] | [|] | | [|] * | | | | | | |
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| RECOMMENDATIONS: | (If dif | ferent | from | n NAS | A) | | | | | | | | | |
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| * CIL RETENTION | RATIONALE: | (If a | pplic | | ADEQU NADEQU | | [|] | | | | | | |
| REMARKS: REFERENCE DESIGN | ATOR SHOUL | LD READ | "837 | /76A18 | BAR(II | [)J1- | 109" | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 12/18/87 EPD&C-6258 05-6-2216-1 | L | NASA DATA BASELINE NEW | | | | | | | | | | |
|---|---------------------------------------|----------------|------------------------------|--------------------------|--|--|--|--|--|--|--|--|--|
| | 6258 | GGLE 3PDT (INV | /AC BUS 3) | | | | | | | | | | |
| LEAD ANALYST: | K. SCHMECKE | PEPER | | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C | | | | | | | | | | | | | |
| | | В | С | 1157 | | | | | | | | | |
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| RECOMMENDATIONS: | (If diffe | erent from NAS | A) | | | | | | | | | | |
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| DEW DAG | | : | ADEQUATE INADEQUATE | [] | | | | | | | | | |
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|---|------------|------------|------------------------|------------|-------|-------------|------|-------|--------------------|------------|-----|------|--|
| SUBSYSTE MDAC ID: ITEM: | | | EPD&C 6259 SWITC | | OGGL: | E 3PD | r (I | NV/AC | BUS 3) | | | | |
| LEAD ANALYST: K. SCHMECKPEPER | | | | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C | | | | | | | | | | | | | |
| | HD | W/FU | NC | A | 7 | В | | С | | | | | |
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| COMPARE | [| / |] | [|] | [N |] | [|] | [|] | | |
| RECOMMEN | IDATI | ons: | (If | dif | fere | nt fro | om N | ASA) | | | | | |
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| REMARKS: | | EFTN | ЕО ТНІ | S F | AILUR | E MODI | E AS | : FAI | LS CLOS | ED IN | "OF | F" | |
| POSITION | 1, "0 | FF" | CONTAC | CT SH | IORTS | TO G | ROUN | D. I | DA CONC | URS W | ITH | NASA | |

REEVALUATION.

| ASSESSMENT ID NASA FMEA #: | : EPD&C- | 6260 | | NASA DATA BASELINI NEV | |
|---------------------------------|-------------------------|----------------|----------------|------------------------------|-------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6260 SWITCH | , TOGGLE | SPDT (AC | 3 BUS SNSR) | |
| LEAD ANALYST: | к. ѕсн | MECKPEPE | R | | |
| ASSESSMENT: | | | | | |
| FL | IGHT | REDUND | ANCY SCRE | ENS | CIL ITEM |
| HDW, | /FUNC | A | В | С | |
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| REMARKS: | | · | | ADEQUATE INADEQUATE | |
| FAILURE MODE (CONCURS WITH I | | | PÉN OR SHO | ORTS TO GROU | ND - IOA |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6260A | N | BASELINE NEW | | |
|--|---------------------------------|------------------|-----------------|-------------|-------------|
| | EPD&C 6260 SWITCH, TOGGLE | SPDT (AC 3 E | BUS SNSR) | | |
| LEAD ANALYST: | K. SCHMECKPEPER | | | | |
| ASSESSMENT: | | | | | |
| CRITICAL: FLIGH HDW/FUI | r | NCY SCREENS | | CIL ITEM | |
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| IOA [3 /1R |] [P]] [P] | [P] [F | · j | [| j |
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| RECOMMENDATIONS: | (If different | from NASA) | | | |
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| * CIL RETENTION | RATIONALE: (If a | I | ADEQUATE | [|] |

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| SUBSYSTI MDAC ID: ITEM: | | | | EPD&C 6261 SWITCH | ł, | T | OGGLE | SP | נים | r (AC | 3 | В | JS S | NSR) | | | | |
| LEAD AND | ALYS | T | : | K. SCI | IMI | ECI | KPEPE | R | | | | | | | | | | |
| ASSESSMI | ENT: | | | | | | | | | | | | | | | | | |
| | | FI | LIGH | _ | | | EDUND | | | SCRE | EN: | _ | | | CII | | | |
| | Н | IDV | V/FUI | NC | | A | | | В | | | С | | | | | | |
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| COMPARE | [| | / | 3 | [| |] | [| |] | [| |] | | [|] | | |
| RECOMMEN | TAD | 'IC | ons: | (If | đi | ifi | feren | t f | rc | om NA | SA |) | | | | | | |
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| * CIL RI | ETEN | T] | ON I | RATIONA | \LI | 3: | (If a | qqe | li | cabl | e) | | | | | | | |
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| FAILURE | _ | Έ | CHAN | GED TO |) I | A] | LS C | Los | ΕI | INI | MOI | VI) | rer i | POSI | TION | - 1 | IOA | |
| CONCURS | | | | | | | | | | | | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/06/87 EPD&C-62 05-6-226 | | NASA DATA BASELINE NEW | | |
|--|---------------------------------|------------|------------------------------|-----------------|-------------------|
| | EPD&C 6262 CIRCUIT | BREAKER | , 3A TO A | AC3 BUS SEŅS | or |
| LEAD ANALYST: | K. SCHME | CKPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL: FLIGHT | | REDUNDA | NCY SCREE | ens | CIL ITEM |
| HDW/FU | | A | В | С | |
| NASA [3 /1R IOA [3 /1R |] [| P] P] | [P] [P] | [P] [P] | [] * |
| COMPARE [/ |] [|] | [] | [] | [] |
| RECOMMENDATIONS: | (If di | ifferent | from NAS | SA) | |
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| * CIL RETENTION | RATIONALE | E: (If a | pplicable | ADEQUATE | [] |
| REMARKS: | | | | INADEQUATE | [] |

| ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-6263 NASA FMEA #: 05-6-2265-2 | | | | | | | | | | | | | | | ASA Basi | ELII | | [| v |] | | | |
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| | SUBSYSTEM: EPD&C MDAC ID: 6263 ITEM: CIRCUIT BREAKER | | | | | | | , | 37 | . 1 | ro <i>i</i> | VC(| 8 F | 3US | | | | Λ | J | | | | |
| | LEAD ANA | LY: | ST | : | ĸ. | SCI | -IMI | ECI | KPE | PER | | | | | | | | | | | | | |
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| | * CIL RE | } | | | | | | | · | | | | ica | able | • | | DEQU DEQU | | | [| x |] | |
| | TOW COM | CURG | اد | WITU | 1457 | on : | . | ر ب | اللابك. | TA | Ö. | • | | | | | | | | | | | |

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| SUBSYSTE MDAC ID: ITEM: | M: | | EPD&C 6264 AC OVER/UNDER VOI | | | | | | | | л | SNSR | 3 | | | | | | | |
| LEAD ANA | LYS | T: | : | ĸ. | SCI | IMI | ECI | KPEI | PER | | | | | | | | | | | |
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| CRITICAI FLIGH HDW/FU | | | | HT | | | | | | | | CY SCREENS B C | | | | | | CIL ITEM | | |
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| ASSESSMENT DATE: 6/13/87 ASSESSMENT ID: EPD&C-6265 NASA FMEA #: 05-6-2361-2 | | | | | | | | | | | | | | | | DA' ELII Ni | | [| x |] | |
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| SUBSYSTE MDAC ID: | | 6265 AC OVER/UNDER VOL | | | | | | | | | | SNS | R 3 | | | | | | | | |
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| SUBSYSTE MDAC ID: | | | EPD 626 DIO | 5 | OCKI | NG 1A | (TO |) 3 A | SET) | | | | |
| LEAD ANA | LYS | ST: | K. : | SCHME | KPEP | ER | | | | | | | |
| ASSESSME | ENT | : | | | | | | | | | | | |
| | | ITICA FLIG HDW/F | | F | | DANCY B | SCR | REENS | : | | CII | | |
| NASA IOA | [| 3 /3 3 /3 |] | [|] | [|] | [|] | | [|] * | t |
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ASSESSMENT DATE: 6/04/87

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| SUBSYSTEM MDAC ID: ITEM: | 1: | | EPD&C 6268 DIODE | | ocki | NG 1A | (TO | 3 B | SET) | | |
| LEAD ANA | LYST | : | K. SC | HMEC | KPEP | ER | | • | | | |
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| | | LIGH W/FU | | A | | В | | С | | J11 | |
| NASA IOA | [3 [3 | /3 /3 |] | [|] | [[|] |]. |]] | [|] *] |
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| REMARKS: | | | | | | | | | ~ | • | • |

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APPENDIX C ASSESSMENT WORKSHEET

| ASSESSME ASSESSME NASA FME | NT | ID | : | EP | PD&C-6269 BASI 05-6-2195-2 PD&C | | | | | | | | | | LINE | | x |] | | |
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THE PREFLIGHT TEST BUS.

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| SUBSYSTEM MDAC ID: | M: | | EPD&C 6270 DIODE | | ocki | NG 1A | (TO : | 3 C | SET) | | | | |
| LEAD ANA | LYSI | r: | K. SC | HMEC | KPĘP | ER | | | | | | | |
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| | | TICAL FLIGH | | R | EDUN | DANCY | SCRE | ENS | | | CIL | | |
| | | OW/FU | | A | | В | | (| С | | | | |
| NASA IOA | [3 | 3 /3 |] | [[|]. | [|] | [|] | | [|] ; | k |
| COMPARE | [| / |] | [| 1 | [| 3 | [|] . | | [|] | |
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| REMARKS: | | | | | | | | TIA | VDEÄ OVI | ب. | L | 1 | |

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| LEAD ANALYST: | K. SCHMECKPEPE | ER | |
| ASSESSMENT: | | | |
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| SUBSYSTE MDAC ID: | | | | EPD 629 RES | | 100 | K (AC | BUS | 3 B | CURRE | ENT) | | |
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| LEAD ANALYST: | K. SCHMECK | PEPER | | | | |
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| SUBSYSTI MDAC ID: ITEM: | | | EPD 6299 RESI | 9 | , 4.3 | 3K 1/ | 8W (2 | AC BU | S 3 A V | OLTAG | E) |
| LEAD AND | ALYS | T: | к. s | SCHME | CKPEI | PER | | | | | |
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| SUBSYSTEMDAC ID: | | | | EPD8 6300 RESI | | 4.3 | K 1/8V | V (2 | AC BUS | 3 B | VOL | TA GI | E) | |
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| LEAD ANALYST | !: | K. SCI | HME | CF | (PEPEI | 3 | | | | | | | | | | |
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| SUBSYSTEM MDAC ID: ITEM: | 1: | | EPD&C 6308 RELAY | , LA | TCHI | NG TO | AC B | us : | 3 A | | | , | ? |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6309 RELAY, LATO | CHING TO AC B | US 3A | |
| LEAD ANALYST: | K. SCHMECKE | PEPER | | |
| ASSESSMENT: | | | .• | |
| CRITICAL FLIGH | | DUNDANCY SCRE | ENS | CIL ITEM |
| HDW/FU | | В | С | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6311 RELAY, LATCHING | TO AC BUS | 3B | |
| LEAD ANALYST: | K. SCHMECKPEPER | | | |
| ASSESSMENT: | | | | |
| CRITICALI FLIGHT | 7 | CY SCREENS | | CIL ITEM |
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| SUBSYSTE MDAC ID: ITEM: | | | EPD&C 6312 RELAY, | LA! | rchii | IG TO | AC BU | JS | 3C | | |
| LEAD ANA | LYSI | : | K. SCH | IME _C I | KPEPI | ER | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6313 RELAY, | LATCHING TO | AC BUS 3C | |
| LEAD ANALYST: | K. SCHM | ECKPEPER | | |
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| CRITICA FLIC | | REDUNDANCY | SCREENS | CIL |
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| LEAD ANA | LYS | T: | | K. S | CHMECI | KPEPI | ER | | | | | | | |
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| ASSESSMEN | SSESSMENT DATE: 12/07/87 SSESSMENT ID: EPD&C-6324 ASA FMEA #: 05-6-2611-1 UBSYSTEM: EPD&C | | | | | | | | | | | | | • | | SA DA ASELI N | | [| |] | |
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| SUBSYSTE MDAC ID: | | | EPD& 6325 CIRC | _ | BREAI | KER A | С 3В | TO R | CS/OMS-3 | | |
| LEAD ANA | LY | ST: | K. S | CHME | CKPEI | PER | | | | | |
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| | HDW/FU | | | | | | A | | | | В | | | | С | | | | | | | |
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| SUBSYSTI MDAC ID: ITEM: | | | EPD& 6327 CIRC | | BREAI | KER A | C 3C | TO R | cs/oms | -3 | | | |
| LEAD ANA | ALYS | T: | K. S | CHME | CKPEI | PER | | | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6328 CIRCUI | T BR | EAKER ' | TO FMCA- | 3 | |
| LEAD ANALYST: | K. SCH | IMECK | PEPER | | | |
| ASSESSMENT: | | | | | | |
| | CALITY IGHT | RE | DUNDAN | CY SCREE | ns | CIL ITEM |
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| SUBSYSTE MDAC ID: | | | EPD&0 6329 CIRCU | - | REAK | ER TO | FMC | CA-3 | | | |
| LEAD ANA | LYS | T: | K. sc | CHMEC | KPEP | ER | | | | | |
| ASSESSME | NT: | | | | | | | | | | |
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|--|----------------------------------|------------|----------------|------------------------------|-------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6330 CIRCUIT | BREAKE | R TO MMCA- | -2 | |
| LEAD ANALYST: | K. SCHM | ECKPEPE | R | | |
| ASSESSMENT: | | | | | |
| | ALITY GHT FUNC | REDUND. | ANCY SCREE | ens C | CIL ITEM |
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| | EPD&C 6331 CIRCUIT | BREAKER TO | MMCA-2 | |
| LEAD ANALYST: | K. SCHME | CKPEPER | | |
| ASSESSMENT: | | | | |
| CRITICAL: FLIGHT | | REDUNDANCY | SCREENS | CIL ITEM |
| HDW/FUI | | A B | С | |
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|--|--------------------------------------|---------------------------------|-------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6332 CIRCUIT BREAKE | R TO MMCA-4 | |
| LEAD ANALYST: | K. SCHMECKPEPE | R | |
| ASSESSMENT: | | | |
| CRITICAL FLIGH HDW/FU | T | DANCY SCREENS B C | CIL ITEM |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6333 CIRCUIT B | REAKER TO | MMCA-4 | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL: FLIGHT | | EDUNDANCY | SCREENS | | CIL ITEM |
| HDW/FU | NC A | . В | | С | |
| NASA [3 /1R IOA [3 /3 | |] [F |] [| P] | [X] * |
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| SUBSYSTEM MDAC ID: | 1: | | | 63 | D&C 34 RCUI | T | BR | EAKE | R : | го | AMCA- | -3 | | | | | | | |
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| SUBSYSTI MDAC ID: ITEM: | | | EPD& 6335 CIRC | | BREAL | KER TO | O AMC | CA-3 | | | |
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| SUBSYSTE MDAC ID: ITEM: | M: | | | EPD&C 6337 RELAY | | o 1 | PLBD | AC | 3 | | | | | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6338 RELAY TO | PLBD A | .C3 | | | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | t | | | | |
| ASSESSMENT: | | | | | | | |
| CRITICAL FLIGH HDW/FU | r | | NCY S | SCREENS | С | CIL | [|
| NASA [2 /1R IOA [2 /1R | | ?] | [P] |] [| P] P] | [X |] * |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6339 RELAY TO | PLBD AC3 | | | |
| LEAD ANALYST: | K. SCHMECI | KPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL FLIGH | T | EDUNDANCY | SCREENS | | CIL ITEM |
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| MDAC ID: | EPD&C 6340 RELAY TO | PLBD A | v C3 | | |
| LEAD ANALYST: | K. SCHMEC | KPEPEF | t | | |
| ASSESSMENT: | | | | | |
| CRITICAL FLIGH HDW/FU | T | | NCY SCRI | eens C | CIL ITEM |
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| SUBSYSTE MDAC ID: | M: | | | 63 | | тc | F | LBD | AC | 3 | | | | | | | | | |
| LEAD ANA | LYS | T: | } | ĸ. | SCH | ME | CF | PEPE | ER | | | | | | | | | | |
| ASSESSME | NT: | } | | | | | | | | | | | | | | | | | |
| | CRI | | CAL | | • | | RI | EDUNE | AN | CY | SCR | EEN | S | | | | IL TEN | 1 | |
| | I | - | LIGH V/FUI | | | | A | | | В | | | С | | | | | | |
| NASA IOA | [| 2 2 | /1R /1R |] | | [| P P |] | [| P |] |] | P P |] | | [| X X |] | * |
| COMPARE | (| | / |] | | [| |] | [| • | 1 | [| |] | | [| |] | |
| RECOMMEN | IDA' | ri(| ons: | | (If | d : | if: | fere | nt | fr | om N | IASA |) | | | | | | |
| | [| | / |] | | (| |] | | [|] | [| |] | (A | DD. | /D | ELI | ETE) |
| * CIL R | | NT | ION | RA' | CION | AL | E: | (If | a | ppl | icak | | Α | DEQU DEQU | | | |] | |
| REMARKS | : | | | | | | | | | | | | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 12/07/87 EPD&C-634 05-6EB-20 | | | NASA DA BASELI | |
|--|------------------------------------|--------|----------------|-----------------------------|------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6343 RELAY TO | PLBD A | vC3 | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | t | | |
| ASSESSMENT: | | | | | |
| CRITICALI FLIGHT HDW/FUN | r | | NCY SCR | EENS C | CIL ITEM |
| NASA [3 /1R IOA [3 /1R |] [P |] | [F] [P] | [P] [P] | [X] * |
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| RECOMMENDATIONS: | (If dif | ferent | from N | ASA) | |
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| * CIL RETENTION R REMARKS: IOA CONCURS WITH | | | | le) ADEQUAT INADEQUAT | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | | 344 | | | NASA DATA BASELINE NEW | |
|---|---------------------------|------------|------------|--------|------------------------------|--------------------|
| | EPD&C 6344 RELAY, 4 | IP TO PI | .BM-A | .C3 | | |
| LEAD ANALYST: | K. SCHMI | ECKPEPER | ł | | | |
| ASSESSMENT: | | | | | | |
| CRITICAL FLIGH | | REDUNDA | NCY | SCREEN | S | CIL ITEM |
| HDW/FU | NC | A | В | | С | |
| NASA [2 /1R IOA [2 /1R |] [| P] P] | [P [F |] [| P] P] | [X] * [X] |
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| RECOMMENDATIONS: | (If d | ifferent | fro | m NASA |) | |
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| REMARKS: NASA HAS ADDED T FMEA. RELAY STA WITH THE NASA RE | TUS CAN 1 | BE DETEC | "COI | L SHOR | T TO GROUN | - |

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| SUBSYSTEM MDAC ID: | | | EPD&C 6344 RELAY | , 4 | ŀΡ | TO P | LBM- | AC3 | | | | | | | |
| LEAD ANA | LYST | : | K. SC | HME | ECI | KPEPE | R | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | |
| • | | ICAL: LIGH: | ITY F | | RI | EDUND | ANCY | SCRE | EN: | S | | | IL TE | | |
| | HD | W/FUI | NC | | A | | В | | | С | | | | | |
| NASA IOA | [2 | /1R /1R |] | [| P P |] | [P |] | [| P P |] |] | X X |] | * |
| COMPARE | [| / |] | [| |] | [|] | [| |] | [| |] | |
| RECOMMENI | OATIO | ONS: | (If | di | .f1 | feren | t fr | om NA | SA |) | | | | | |
| | [| / |] | [| |] | [|] | [| | | _ | /D | - | ETE) |
| * CIL RE | rent: | ION I | RATION | ALE | : | (If a | appl | icable | • | ΑI | EQUATE | <u>[</u> | |] | |
| REMARKS: | ه. | | | | | | | | 11 | IA | DEQUATE | [| |] | |

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| ASSESSMI ASSESSMI NASA FMI | ENT I | D: | EPD&C- | -634 | NASA DATA: BASELINE [] NEW [X] | | | | | |] | |
|----------------------------------|------------|------------|-------------------------|-------|-----------------------------------|------------|----------|-----|-------------------|-----|-------------|-------------|
| SUBSYSTI MDAC ID: ITEM: | | | EPD&C 6345 RELAY, | . 4P | TO I | PLBM- | AC3 | | | | | |
| LEAD AN | ALYST | !: | K. SCH | IMEC! | KPEPI | ER | T | | | | | |
| ASSESSMI | ENT: | | | | | | | | | | | |
| | | 'ICAL' | | R | EDUNI | DANCY | SCRE | ENS | 1 | | CIL ITEM | ſ |
| | HE | W/FUI | NC | A | | В | | | С | | | |
| NASA IOA | [3 [3 | /1R /1R |] | [P |] | [P [F | -]] | [| P] P] | | x] |] * |
| COMPARE | [| / | 1 | [|] | [N | 3 | [|] | | [N |] |
| RECOMME | NDATI | ons: | (If | dif | fere | nt fr | om NAS | SA) | | | | |
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| * CIL R | ETENT | ION | RATION | ALE: | (If | appl | icable | | ADEQUA IADEQUA | | |] |
| REMARKS THE "B" STATE W | SCRE | | | | | | | | | | THE | RELAY |

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|----------------------------------|-------------|-----|------------|------------------------|-----|--------|--------|-----|--------|-------|------|--------|-----------------------------|--------|-----------|---|---------------|--|
| SUBSYSTE MDAC ID: ITEM: | | | | EPD&C 6346 RELAY | . 4 | P | TO PI | LBI | M-1 | AC3 | | | | | | | | |
| LEAD ANA | LYS | T: | : | K. SCH | IME | CF | (PEPEF | ₹ | | | | | | | | | | |
| ASSESSME | NT: | | | | | | • | | | | | | | | | | | |
| | CRI | | CALI | TY | : | RF | EDUNDA | \N(| CY | SCRI | EENS | 3 | | | IL PEN | , | | |
| | H | | I/FUI | _ | | A | | | В | | | С | | 1. | LLI | 1 | | |
| NASA IOA | | | /1R /1R |] | | P P |] | [| P F |] |] | P P |] | [| X X |] | * | |
| COMPARE | [| | / |] | [| |]. | [| N |] | [| |] | [| |] | | |
| RECOMMEN | DA I | 'IC | ons: | (If | di | fí | erent | : : | fro | om Ni | ASA) | | | | | | | |
| | [| | / |] | [| |] | [| |] | | |] (A) | _ | /DI | • | ETE) | |
| * CIL RE | TEN | T] | ON I | RATIONA | LE | : | (If a | ıpı | ol: | cab: | le) | Δī | DEQUATE | ſ | x | 1 | | |
| REMARKS: | | | | | | | | | | | IN | | DEQUATE | [| Λ |] | | |
| NASA HAS | ELA | Y | STAT | TUS CAN | B | E | DETEC | | | | | | | | - | | THIS ICURS | |

| SUBSYSTEM: EPD&C MDAC ID: 6346 ITEM: RELAY, 4P TO PLBM-AC3 LEAD ANALYST: K. SCHMECKPEPER ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL FLIGHT HDW/FUNC A B C NASA [2 /1R] [P] [P] [P] [X] * IOA [2 /1R] [P] [P] [P] [X] COMPARE [/] [] [] [] [] RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE [X] | ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 12/09/87 EPD&C-6346A 05-6-2757-2 | N | ASA DATA: BASELINE NEW | |] |
|---|--|--|---------------|------------------------------|------------|------------|
| ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL ITEM HDW/FUNC A B C NASA [2 /1R] [P] [P] [P] [X] * IOA [2 /1R] [P] [P] [P] [X] * IOA [2 /1R] [Y | MDAC ID: | 6346 | PLBM-AC3 | | | |
| CRITICALITY FLIGHT HDW/FUNC A B C NASA [2 /1R] [P] [P] [P] [X] * IOA [2 /1R] [P] [P] [P] [X] * TOA [2 /1R] [P] [P] [P] [X] * COMPARE [/] [] [] [] [] [] [] [] RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] [] (ADD/DELETE * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE [] | LEAD ANALYST: | K. SCHMECKPEP | ER | | | |
| FLIGHT HDW/FUNC A B C NASA [2 /1R] [P] [P] [P] [X] * IOA [2 /1R] [P] [P] [P] [X] COMPARE [/] [] [] [] [] RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] [] (ADD/DELETE * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE [] | ASSESSMENT: | | | | | |
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| RECOMMENDATIONS: (If different from NASA) [/] [] [] [] [] (ADD/DELETE * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE [] | NASA [2 /1R | | [P] [I | ?] ?] | [X |] * |
| [/] [] [] [] (ADD/DELETE * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE [] | COMPARE [/ |] [] | [] [|] | [|] |
| (ADD/DELETE * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE [] | RECOMMENDATIONS: | (If differe | nt from NASA) | | | |
| ADEQUATE [X] INADEQUATE [] | [/ |] [] | [] [|] (AI | [OD/DI |] ELETE |
| REMAKKS: | * CIL RETENTION REMARKS: | RATIONALE: (If | 1 | | [X |] |

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|---|---------------------------|------------|----------------|------------------------------|------------|-------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6347 RELAY, 4 | P TO PL | BM-AC3 | | | · |
| LEAD ANALYST: | к. яснме | CKPEPER | | | | |
| ASSESSMENT: | | | | | | |
| CRITICA FLIG | | REDUNDA | NCY SCRE | ENS | CIL | |
| HDW/F | | A | В | С | 112 | •• |
| NASA [3 /1 IOA [3 /1 | R] [R] [| P] P] | [P] [F] | [P] [P] | [[|] *] |
| COMPARE [/ |] [|] | [א] | [] | [N |] |
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| * CIL RETENTION | RATIONALE | : (If a | pplicabl | • | | |
| REMARKS: | | | | ADEQUATE INADEQUATE | |] |
| THE "B" SCREEN STATE WITH THE | | | | | THE | RELAY |

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| ASSESSME | ac to: 6348 | | | | | | | | | | | | | | SA DA' ASELI N | | | x |] | | |
|--|-------------|-----|---------------|-------------|------|----|--------|-------|------------|--------|----------|------------|------------|--------|----------------------|----------|----------|---------|-----------|-------------|---|
| SUBSYSTE MDAC ID: ITEM: | | | | 634 | 18 | 4 | P | TO PI | LBM | (-A | .C3 | | | | | | | | | | |
| LEAD ANA | LYS | T: | | ĸ. | SCH | ME | CK | PEPE | ₹ | | | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | | | | | |
| | CRI | | CAL | | | | RE | DUND | ANC | Y | SCI | REEI | NS | | | | CI | L EM | [| | |
| | ŀ | | JIGH' V/FU | | | | A | | | В | | | (| 2 | | | | | | | |
| NASA IOA | [| 2 2 | /1R /1R |] | | [| P P |] | [| P F |] | | [] [] | P P |] | |] | X X | } * | 1 | |
| COMPARE | [| | / |] | | [| |] | [| N |] | | [| |] | | [| |] | ٠ | |
| RECOMME | NDA' | rI | ons: | | (If | đ | if | feren | t: | fr | om | NAS | A) | | | | | | | | |
| : | [| | 1. | | | | |] | | | | | | |] | (A |) DD, | /DI |] ELE' | re) | |
| * CIL R | ETE | NT | ION | RAT | ION | AL | E: | (If | ap | pl | ica | ble | | | DEQUA' | | [| x |] | | |
| REMARKS NASA HA FMEA. WITH TH | S A REL | ΑY | STA | YTUS | S CA | N | BE | DETE | e " ECT | CO | IL VI | SHC [A] | RT | ΕÌ | TO GR METRY | oun • | ''D'' | T(| O T | HIS CURS | 3 |

| Assessm Assessm NASA FM | ENT | , I | D: | | EI | 2/09 PD&C 5-6- | :-6 | 34 | | | | | | | | | ASA D BASEL | | [| |] :] | |
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| SUBSYST MDAC ID ITEM: | | | | | 63 | PD&C 848 ELAY | | 4P | TO |) P | LB | M | AC: | 3 | | | | | | | | |
| LEAD AN | ALY | ST | : | | ĸ. | sc | HM | EC | KPI | EPE | R | | | | | | | | | | | |
| ASSESSMI | ENT | : | | | | | | | | | | | | | | | | | | | | |
| | | F | ICA LIC | THE | • | | | R A | EDU | JND | AN | CY B | s | CREE | NS | c | | | | IL TE | | |
| NASA IOA | | 2 2 | /1 /1 | .R .R |]] | | [| P P |] | | [| P P |] | |] | P P |] | ٠ |] | X X |] | * |
| COMPARE | [| | / | |] | | [| |] | | [| |] | | [| |] | | [| |] | |
| RECOMMEN | DA' | CIC | ONS | : | | (If | d : | Ĺfí | fer | ent | : f | rc | m | NAS | A) | | | | | | | |
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| * CIL RE | TEN | T | ON | R | AT: | IONA | \LE | E: | (I | fa | pp | li | ca | | | | EQUAT EQUAT | | [| x |] | |

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| ASSESSMEI ASSESSMEI NASA FME | I TN | D: | 12/09/ EPD&C- 05-6-2 | -63 | 349 | | | | | | | ASA DA BASEL: | | [| |] | |
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| SUBSYSTEM MDAC ID: | | | EPD&C 6349 RELAY, | , 4 | ŀΡ | то | PLI | 3M- | AC3 | 3 | | | | | | | |
| LEAD ANA | LYST | : | K. SCH | IMI | ECH | (PE) | PER | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | |
| 1 | | ICAL: | | | RI | EDUI | NDAI | 1CY | sc | CREENS | 3 | | | CI | L PEM | ſ | |
| | _ | LIGH' W/FU | NC | | A | | | В | | | С | | | | . 1514 | • | |
| NASA IOA | [3 [3 | /1R /1R |] |] | P P |] | | [P |] | [| P P |] | | [| x |] | * |
| COMPARE | [| / |] | [| |] | | [N |] | [| |] | | [| N |] | |
| RECOMMEN | DATI | ons: | (If | d : | if | fer | ent | fr | om | NÄSA |) | | | | | | |
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| * CIL RE | TENT | I NOI | RATION | ALI | E: | (I | f a | ppl | ica | | | DEQUA | | <u>[</u> | |] | |
| REMARKS: THE "B" STATE WI | | | | | | | | | | JND C | AN | | TER | [TI | ΙE | , | LAY |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6350 | 0 - 1 | NASA DA BASELI N | |
|--|----------------------------|-----------------|--------------------------------|---------------------|
| | EPD&C 6350 RELAY, 4P | TO PLBM-A | сз | |
| LEAD ANALYST: | K. SCHMECK | KPEPER | | |
| ASSESSMENT: | | | | |
| CRITICAL: FLIGHT | | EDUNDANCY | SCREENS | CIL ITEM |
| HDW/FUI | | В | С | IIEM |
| NASA [2 /1R IOA [2 /1R |] [P] [P |] [P] [F |] [P]] [P] | [X] * [X] |
| COMPARE [/ |] [|] [N |] [] | [] |
| RECOMMENDATIONS: | (If diff | ferent fro | m NASA) | |
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| * CIL RETENTION 1 | RATIONALE: | (If appli | cable) ADEQUAT INADEQUAT | _ , |
| REMARKS: NASA HAS ADDED TO FMEA. RELAY STATE WITH THE NASA RED | TUS CAN BE | DETECTED | L SHORT TO GROVIA TELEMETRY. | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 12/09/87 EPD&C-6350A 05-6-2753-2 | | NASA DATA BASELINE NEW | |
|--|--|----------------|------------------------------|------------------|
| | EPD&C 6350 RELAY, 4P TO P | LBM-AC3 | | |
| LEAD ANALYST: | K. SCHMECKPEPE | R | | |
| ASSESSMENT: | | | | |
| CRITICAL: FLIGHT HDW/FUI | r | ANCY SCRE B | ENS C | CIL ITEM |
| NASA [2 /1R IOA [2 /1R |] [P]] [P] | [P] [P] | [P] [P] | [X] * [X] |
| COMPARE [/ | 1 [] | [] | [] | [] |
| RECOMMENDATIONS: | (If differen | t from NA | SA) | |
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| * CIL RETENTION | RATIONALE: (If | applicabl | e) ADEQUATE INADEQUATE | [X] |

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| ASSESSM | SSESSMENT DATE: 12/09/87 SSESSMENT ID: EPD&C-6351 ASA FMEA #: 05-6-2753-3 | | | | | | | | | | | | asa da Baseli N | | [| | | |
|------------------------------|---|--------|--------------|-----------------------|------|--------|-----|-------|--------|------|-------|-----------|-----------------------|--------|----|-----------|----|------|
| SUBSYST: MDAC ID ITEM: | | | | EPD&6 6351 RELA | | P | то | PLB | 1-2 | AC3 | | | | | | | | |
| LEAD AN | ALY | ST | : | K. S | CHME | CI | (PE | PER | | | | | | | | | | |
| ASSESSM | ENT | : | | | | | | | | | | | | | | | | |
| | CR | | ICAL LIGH | ITY T | | RF | EDU | NDANG | CY | SCF | REENS | 3 | | | | IL FEN | | |
| | | | | NC | | A | | | В | | | С | | | | | • | |
| NASA IOA | [| 3 3 | /1R /1R |] |] | P P |] |] | P F |] | [| P P |] | | [| x |] | * |
| COMPARE | .[| | / |] - | [| | 1 | [| N |] | [| |] | | [| N |) | |
| RECOMME | NDA | TI | ONS: | (11 | f di | ff | er | ent f | fro | om N | iasa) | ı | | | | | | |
| | [| | / |] | [| |] | [| |] | [| | | (AI | | /DF | | ETE |
| * CIL R | ETE | NT: | ION 1 | RATION | IALE | : | (I | f app | 1 | icab | • | | | | | | | |
| REMARKS | : | | | | | | | | | | IN | AI IAI | EQUAT: | E E | [| |] | |
| THE "B" | | | | | | | | | | | | | | ER | TH | ŧΕ | RF | ELAY |

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|---|-------|-----------|------------------------|-------------|-----------------------------|------|-------|-------|--------------------|------------|--------------|
| SUBSYSTEM MDAC ID: ITEM: | 1: | | EPD&C 6352 RESIS | ror, | 1.2K | 2W | (TO 1 | MEC # | 1) | | |
| LEAD ANAI | LYST | : | K. SCI | HMEC | KPEPE | 3 | | | | | |
| ASSESSMEN | IT: | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM | | | | | | | | | | | |
| | | /FUI | | A | | E | } | С | | | |
| NASA IOA | | | | [P |] | [F |] | [P |] | [] | (] * (] |
| COMPARE | [N | / |] | [|] | [] |] | [|] | [| 1 |
| RECOMMEN | OATIO | ONS: | (If | dif | feren | t fr | om N | ASA) | | | |
| | [| / |] | [| 1 | (| 1 | (|] (2 | [\DD/I |] DELETE) |
| * CIL RET | rent: | ION : | RATION | ALE: | (If | app] | icab. | A | DEQUATE DEQUATE | | K] |
| | JRS 1 | WITH | NASA | - IO | A DID | ron | CON | SIDER | ET IMPA | CT 1 | FOOTPRINT. |

| SUBSYSTEM: EPD&C MDAC ID: 6352 ITEM: RESISTOR, 1.2K 2W (TO MEC #1) LEAD ANALYST: K. SCHMECKPEPER ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL FLIGHT HDW/FUNC A B C NASA [3 /3] [] [] [] [] IOA [3 /3] [] [] [] | |
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| ASSESSMENT: CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C | |
| CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C | |
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| COMPARE [/] [] [] [] | |
| RECOMMENDATIONS: (If different from NASA) | |
| [/] [] [] (ADD/DEL | ETE) |
| * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE [] REMARKS: | |

| ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #: | EPD&C-6 | 353 | | NASA DATA: BASELINE NEW | |
|---|--------------------------|--------------|----------------|-------------------------------|-------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6353 RESISTO | OR, 1.2K | 2W (TO ME | C #1) | |
| LEAD ANALYST: | K. SCHM | ECKPEPE | ₹ | | |
| ASSESSMENT: | | | | | |
| CRITICA FLIG HDW/F | | REDUNDA A | ANCY SCREED B | ns C | CIL ITEM |
| NASA [3 /1 IOA [3 /1 | R] [| P] | [P] [F] | [P] [P] | [x] * |
| COMPARE .[/ |] [| . 1 | [N] | [] | [N] |
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| SUBSYSTE MDAC ID: ITEM: | M: | | EPD&C 6353 RESIS | | 1.2 | K 2W | (TO M | EC# | 1) | | | |
| LEAD ANA | LYSI | r: | K. SC | HMEC | KPEP | ER | | | | | | |
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| SUBSYSTE MDAC ID: | | | EPD& 6354 RESI | | 1.2 | K 2W | (TO | MEC : | #2) | | |
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| SUBSYSTEM MDAC ID: | M: | | EPD&C 6355 RESIS | ror, | 1.2K | 2W | (TO M | EC #: | 2) | | | |
| LEAD ANA | LYST | : | K. SCI | HMEC | KPEPEI | R | | | | | | |
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| CRITICALITY REDUNDANCY SCREENS FLIGHT | | | | | | | | | CIL | | | |
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| ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-6357 NASA FMEA #: 05-6-2231-1 SUBSYSTEM: EPD&C | | | | | | | | | | | | | | DATA LINE NEW | [| x |] | | |
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| LEAD ANALYST: | K. SCHME | CKPEPER | l | | |
| ASSESSMENT: | | | | | |
| CRITICAL FLIGH HDW/FU | T | REDUNDA A | NCY SCRE | ENS C | CIL ITEM |
| nDw/ FU | | n. | Б | C | |
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| | EPD&C 6362 RPC, 10A TO | O MEC #2 | | | | | | | |
| LEAD ANALYST: | K. SCHMECK | PEPER | | | | | | | |
| ASSESSMENT: | | | | | | | | | |
| CRITICAL FLIGH | | DUNDANCY | SCREENS | } | CIL ITEM | | | | |
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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6364 | NASA DATA: BASELINE NEW | |
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| | EPD&C 6364 RPC, 10A TO MEC | #2 | |
| LEAD ANALYST: | K. SCHMECKPEPER | | |
| ASSESSMENT: | | | |
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| LEAD ANA | ALYST: | K. S | СНМЕ | CKPEF | ER | | | | | |
| ASSESSMI | ent: | | | | | | | | | |
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| SUBSYSTE MDAC ID: | | | | EPD&66368 | | TO N | ÆC #1 | | | | | | | |
| LEAD ANA | LY | ST | : | K. S | CHMEC | KPEI | PER | | | | | | | |
| ASSESSME | ASSESSMENT: | | | | | | | | | | | | | |
| FLIGHT | | | | | | | | | | | CIL CTEN | 4 | | |
| | 1 | | W/FUI | | A | | В | , | С | | | | _ | |
| NASA IOA | [| 2 | /1R /1R |] | [P |)] | [F |] | [P [P |] | ļ | X |] | * |
| COMPARE | [| N | / |] | . [|] |], |] | [|] | I | [|] | |
| RECOMMEN | IDA' | TI | ons: | (I | f dif | fere | ent fr | om 1 | NASA) | | | | | |
| | [| | / |] | [|] | [|] | [|] | (ADI | [D/DI | | ETE) |
| * CIL RE | ETE: | NT | ION 1 | RATIO | NALE: | (I | f appl | ical | Al | DEQUAT | | х [| | |
| REMARKS: NASA HAS IOA CONC | A | | ED T | HE FA | ILURE | MOI | DE "SH | ORT | 5 TO GI | ROUND' | ¹ TO | TH | ıs | FMEA |

| SUBSYSTE MDAC ID: ITEM: | M: | | | EPD 636 RPC | | TO M | IEC #1 | L | | | | | | |
|-------------------------|--------------------|--------|----------|-------------------|--------|----------|--------|--------|------|----------------------------------|-----|-----------|-----------|-----|
| LEAD ANA | LYS | ST | : | K. 8 | SCHMEC | KPEF | PER | | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | | |
| | | | ITY T | F | REDUN | IDANC | SCR | EENS | | | CII | | | |
| | FLIGHT HDW/FUNC | | | | | L | F | 3 | • | C | | | | |
| NASA IOA | [| 3 3 | /3 /3 |] | [|] | [|]] | [|] | | [[|] * | t |
| COMPARE | [| | 1. |] | [. |] | [|] | [|] | | [|] | |
| RECOMMEN | DA' | ric | ONS: | (: | If dif | fere | nt fr | om N | ASA) | | | | | |
| | [| | / |] | [|] | [| 3 | [|] | (A | [DD/[|] ELET | ľE) |
| * CIL RE | TEI | NT: | ION | RATI(| ONALE: | (If | appl | .icab | 1 | ADEQU <i>I</i> ADEQU <i>I</i> | | [|] | |

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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/04/87 EPD&C-6370 05-6-2181-1 | NASA DATA: BASELINE NEW | : [x] [x] |
|--|--------------------------------------|--------------------------------------|---------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6370 DIODE, ISOLATIO | N 12A (TO CONT BUS CA | N1) |
| LEAD ANALYST: | K. SCHMECKPEPER | | T |
| ASSESSMENT: | | | · |
| CRITICAL: FLIGH | | NCY SCREENS | CIL ITEM |
| HDW/FUI | | ВС | |
| NASA [3 /1R IOA [3 /1R |] [P]] [P] | [F] [P] [F] [P] | [X] * |
| COMPARE [/ |] [] | [] [] | [·] |
| RECOMMENDATIONS: | (If different | from NASA) | : |
| [/ |] [] | [] [] (A) | [:] DD/DELETE) |
| * CIL RETENTION | RATIONALE: (If a | pplicable) ADEQUATE INADEQUATE | [X] |
| REMARKS: NASA HAS ADDED TO IOA CONCURS. | HE FAILURE MODE | "SHORTS TO GROUND" TO | O THIS FMEA. |

| ASSESSME NASA FME | NT | ID: | EPD&C 05-6- | -637 | | | | BASELII N | |] | |
|----------------------|----------------|--------------|------------------------|-------|------|-------|----------------|--------------|----------------------|-------------|--------------|
| SUBSYSTE MDAC ID: | | | EPD&C 6371 DIODE | | OLAT | ION 1 | .2 A (' | то с | ONT BUS | CA1) | |
| LEAD ANA | LYS | T: | K. SC | HMEC | KPEP | ER | | | • | | |
| ASSESSME | NT: | | | | | | | | | | |
| | TICAL FLIGH | | R | DANCY | SCR | EENS | | CII | | | |
| | | DW/FU | | A | | В | 1 | | С | ITE | im. |
| NASA IOA | [| 3 /3 3 /3 |] | [|] |] |] | [[|]. | [[|] * |
| COMPARE | [| / |] | [|] | ί |] | [| 1 . | [|] |
| RECOMMEN | DAT | 'IONS: | (If | dif | fere | nt fr | om N | ASA) | • | | |
| | [| / | 1 | [|] | [|] | [|] : | [(ADD/D |] DELETE) |
| * CIL RE | TEN | TION | RATION | ALE: | (If | appl | icab | • | ADEQUATI ADEOUATI | - |] |

| ASSESSMENT DATE: 6/19/87 ASSESSMENT ID: EPD&C-6372 NASA FMEA #: 05-6-2181-2 | | | | | | | | | ŀ | IASA DA BASELI | | [| | |
|---|----------------------------------|------|-----|-------------------|--------|------|------------|---------------|-------|--------------------|------|-----------|----------|-----|
| SUBSYSTE MDAC ID: | | | | EPD 637 DIO | | OLAT | I NOI | .2 A (| то со | ONT BUS | s ca | 12) | | |
| LEAD ANA | LYS | ST: | | K. | SCHMEC | KPEP | ER | | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | | |
| | CRITICALIT FLIGHT HDW/FUNG | | | | | EDUN | DANCY E | | | 2 | | CII | | |
| NASA | | • | | | | | r | ו | г | 1 | | r | 1 | * |
| IOA | [| 3 | /3 |] | [|] | [| j | Ĺ | j | | [| j | |
| COMPARE | [| , | / | 3 | [|] | [|] | [|] | | [|] | |
| RECOMMEN | DA: | rio | NS: | (| If dif | fere | nt fr | om N | ASA) | | | | | |
| | [| | / |] | [|] | [|] | [|] | (AI | [DD/E |] ELE | TE) |
| * CIL RE | TE | NTI) | ON | RATI | ONALE: | (If | appl | icab | 7 | ADEQUA' ADEOUA' | | [|] | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | | | | | | | | | | | | | |
|--|---|---------------------|---------------------|--|--|--|--|--|--|--|--|--|--|
| | EPD&C 6373 DIODE, ISOLATI | ON 12A (TO CONT BUS | CA2) | | | | | | | | | | |
| LEAD ANALYST: | K. SCHMECKPEPE | ir | | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | | |
| CRITICAL: FLIGH | | DANCY SCREENS | CIL ITEM | | | | | | | | | | |
| HDW/FUI | | ВС | 222. | | | | | | | | | | |
| NASA [3 /1R IOA [3 /1R |] [P]] [P] | [F] [P] | [X] * [X] | | | | | | | | | | |
| COMPARE [/ |] [] | [] [] | [] | | | | | | | | | | |
| RECOMMENDATIONS: | (If differen | nt from NASA) | | | | | | | | | | | |
| [/ |] [] | [] [] | [] (ADD/DELETE) | | | | | | | | | | |
| * CIL RETENTION 1 | CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] | | | | | | | | | | | | |
| REMARKS: NASA HAS ADDED TI | ADEQUATE [X] INADEQUATE [] REMARKS: NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA. | | | | | | | | | | | | |

| ASSESSMENT DATE: 6/04/87 ASSESSMENT ID: EPD&C-6374 NASA FMEA #: 05-6-2181-1 REPORCE REPORCE | | | | | | | | - | x |] | | | | | | | | |
|--|--|------------|-------------------|------|-----|--------|-------|------|--------|-------|------|--------|--------|-----|---------|---------|----------|------|
| SUBSYSTE MDAC ID: ITEM: | M: | | EPI 637 DIC | 74 | I | so | LATIC | N | 12 | r) A: | ro c | :01 | IT BUS | CA | 3) | | | |
| LEAD ANA | LYST | : | ĸ. | SCH | IME | CK | PEPER | ł | | | | | | | | | | |
| ASSESSME | NT: | | | , | | | | | | | | | | | | | | |
| | CRITICALITY REDUNDA FLIGHT | | | | | | | NC | Y | SCRE | EENS | 5 | | | | L EM | | |
| | | W/FUI | | | | A | | | В | | | С | | | | LEP | 1 | |
| NASA IOA | [3 | /1R /1R |] | - | [| P P |] | [| F F |] | [| P P |] | | [[| X X |] | * |
| COMPARE | [| / | 3 | | [| |] | [| |] | [| | 1 | | [| |) | |
| RECOMMEN | DATI | ons: | | (If | di | ff | erent | : f | ro | om NA | ASA) | | | | | | | |
| | [| / |] | : | [| |] | [| |] | [| |] | (AD | [D, | /DI |] ELF | ETE) |
| * CIL RE | * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE [] | | | | | | | | | | | | | | | | | |
| REMARKS: NASA HAS IOA CONC | | ED T | HE : | FAII | LUF | RΕ | MODE | 11 5 | энс | ORTS | то | GI | ROUND" | тс | . [| rh] | [S | FMEA |

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| ASSESSME ASSESSME NASA FME | ID: | EPD&C | | | N | IASA DA' BASELI N | | - | | | | |
|----------------------------------|------|----------------|------------------------|------|------|-------------------------|--------------|--------|---------|-------------|------------|---|
| SUBSYSTE MDAC ID: | | . <i>i</i> | EPD&C 6375 DIODE | | TAIO | 'ION 1 | 2 A (| (TO CC | NT BUS | CA3) | | |
| LEAD ANA | LYS | ST: | K. SC | HMEC | KPEF | ER | | | | | | |
| ASSESSME | NT: | • | | | | | | | | | | |
| | | TICAL FLIGH | T | R | | DANCY B | SCI | REENS | • | CII ITI | | |
| | | • | | | • | ם | | | • | | | |
| NASA IOA | [| 3 /3 |] | [|] | [|] | [|] | [[|] * | |
| COMPARE | [| 1 | 1 | [|] | [. |] | [|] | [|] | |
| RECOMMEN | DA'I | rions: | (If | dif | fere | nt fr | om 1 | NASA) | | | | |
| | [| :/ |] | |] | [|] | [| | [(ADD/I |] DELET | E |
| * CIL RE | TEN | NTION | RATION | ALE: | (If | appl | icak | A | DEQUAT: | - |] | |

| ASSESSMENT DATE: 12/05/87 ASSESSMENT ID: EPD&C-6376 NASA FMEA #: 05-6-2183-2 NASA DATA: BASELINE [] NEW [X] | | | | | | | | | | | | | |
|--|-------------|-----------|------------------------|------|-------|----------|------------|-------|----------------------|-----------|--------------|--|--|
| SUBSYSTEM MDAC ID: | 1 : | | EPD&C 6376 DIODE | , IS | OLAT: | ION 1 | 2 A | | | | | | |
| LEAD ANA | LYST | : | K. SC | HMEC | KPEP | ER | | | | | | | |
| ASSESSMEN | ASSESSMENT: | | | | | | | | | | | | |
| CILTITOTICE CONTINUES OF THE PROPERTY OF THE P | | | | | | | | | | CI: | | | |
| | | W/FU | | A | • | E | } | c | 2 | 11 | LDF1 | | |
| NASA IOA | [3 | /1R /3 |] | [P |] | [N [| A]] | [] | ?] | [|] *] | | |
| COMPARE | [| /N | 1 | [N |] | [] |] | [] | 1] | [|] | | |
| RECOMMEN | DATI | ONS: | (If | dif | fere | nt fr | om 1 | NASA) | | | | | |
| | [| / |] | [|] | [|] | (|] | [ADD/ |] DELETE) | | |
| * CIL RE | TENT | 'ION | RATION | ALE: | (If | appl | icak | 1 | ADEQUATE ADEQUATE | |] | | |
| REMARKS: | | | | | | | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6377 | | NASA DATA: BASELINE NEW | | | | | | | | |
|---|--|------------------------|-------------------------------|------------------|--|--|--|--|--|--|--|
| | EPD&C 6377 DIODE, ISOL | ATION 12A | | | | | | | | | |
| LEAD ANALYST: | K. SCHMECKP | EPER | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | |
| CRITICALI FLIGHT | | UNDANCY SCREENS | | CIL ITEM | | | | | | | |
| HDW/FUN | IC A | С | | | | | | | | | |
| NASA [2 /1R IOA [3 /1R |] [P] | [NA] [] [F] [] | P] P] | [X] * [X] | | | | | | | |
| COMPARE [N / |] [] | [N] | 1 | [] | | | | | | | |
| RECOMMENDATIONS: | (If diffe | rent from NASA) | | | | | | | | | |
| [/ |] [] | |] (AD | [] D/DELETE) | | | | | | | |
| * CIL RETENTION F | CIL RETENTION RATIONALE: (If applicable) ADEQUATE [X] INADEQUATE [] | | | | | | | | | | |
| REMARKS: | | | - | [] | | | | | | | |
| REMARKS: NASA HAS ADDED THE FAILURE MODE "SHORTS TO GROUND" TO THIS FMEA. IOA CONCURS WITH THE NASA AFTER LEARNING OF THE FUEL CELL SAFING CONCERNS. | | | | | | | | | | | |

| ASSESSMEN | T II | D: | 12/05/87 EPD&C-6378 05-6-2184-1 | | | | | NASA DATA: BASELINE [] NEW [X] | | | | | | | | | | |
|--------------------------|------------|------------|---------------------------------------|------|-----|--------|-------|-----------------------------------|-------------|-------|------|-----------|------------------|--------|-----|----------|----|-------|
| SUBSYSTEM MDAC ID: ITEM: | | | 63 | | 1 | sc | ITA1 | ON | 12 | :A | | | | | | | | |
| LEAD ANAI | LYST | : | ĸ. | SCH | IME | CF | (PEPE | R | | | | | | | | | | |
| ASSESSMEN | NT: | | | | | | | | | | | | | | | | | |
| (| | ICAL: | | • | | RE | EDUND | ANC | CY | SCRI | EENS | 5 | | | CI | L CEM | ſ | |
| | _ | W/FU | | | | A | | | В | | | С | | | | | | |
| NASA IOA | [3 [3 | /1R /1R |] | | [| P P |] | [| NA F |] | [| P P |] | | [| x |] | * |
| COMPARE | [| / |] | | [| |] | [| N | 1. | [| |] · | | [| N |] | |
| RECOMMEN | DATI | ons: | | (If | đ | Ĺfí | feren | t i | fro | om NA | ASA) |) | | | | | | |
| | [| / |] | | [| |] | [| |] | [| |] | (AI | | /DI | | ETE) |
| * CIL RE | TENT | ION : | RAI | CION | λLI | €: | (If | apj | p1 : | icab: | | IA IAN | DEQUAT DEQUAT | E E | [| |] | |
| REMARKS: NASA HAS | ADD | ED T | HE | FAI | ւՄ | RE | MODE | ** | SHO | ORTS | то | GI | ROUND" | T |) : | rh] | [S | FMEA. |

IOA CONCURS WITH NASA AFTER FURTHER EXAMINATION OF THE CIRCUIT.

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | | | NASA DATA BASELINE NEW | |
|--|-----------------------------|---------------|-------------------------------|-------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6379 DIODE, ISC | OLATION 12A | | |
| LEAD ANALYST: | K. SCHMECH | KPEPER | | |
| ASSESSMENT: | | | | |
| CRITICAI FLIGH HDW/FU | T | EDUNDANCY SCR | eens C | CIL ITEM |
| NASA [2 /1R IOA [3 /3 | [P |] [MA] [| [P] [] | [X] * |
| COMPARE [N /N |] [N |] [N] | [א] | [и] |
| RECOMMENDATIONS: | (If diff | ferent from N | ASA) | |
| [/ |] [|] [] | | [] DD/DELETE) |
| * CIL RETENTION REMARKS: | RATIONALE: | (If applicab) | le) ADEQUATE INADEQUATE | |
| IOA CONCURS WITH CONCERNS. | NASA AFTER | R LEARNING OF | FUEL CELL SA | FING |

| ASSESSME | SSESSMENT DATE: 6/19/87 SSESSMENT ID: EPD&C-6380 ASA FMEA #: 05-6-2200-1 | | | | | | | | ASA DAT BASELIN NE | | (] | | |
|-------------------|--|-------|--------------|-------------------|--------|-------|-------------|-------|--------------------------|---------|-------------|-----------|-----|
| SUBSYSTE MDAC ID: | M: | | | EPD 638 DIO | | INV | 1 A | | | | | | |
| LEAD ANA | LYS | ST | : | K. | SCHMEC | KPEF | PER | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | |
| | | F | ICAI LIGH | | R: | | IDANCY B | SCF | REENS C | | CII ITI | | |
| | | | - | | | | _ | _ | _ | _ | _ | _ | |
| NASA IOA | [| 3 | /3 /3 |] | [|] | [|] | [|] | [|] | * |
| COMPARE | [| | / |] | [|] | [|] | [| 1 | [|] | |
| RECOMMEN | DA: | rI | ons: | (| If dif | fere | ent fr | om 1 | NASA) | | | | |
| | (| | / |] | [|] | [|] | [|] | [(ADD/1 |] DELF | ETE |
| * CIL RE | ושחי | vian. | TON | D N TO T | ONATE. | / T f | f annl | i cal | n1e) | | | | |
| ~ CIL RE | LEI | ΑT. | TOM | KMII | ONALL: | (11 | r abbī | Lear | A | DEQUATI | _ |] | |

| ASSESSMENT DATE: 6/19/87 ASSESSMENT ID: EPD&C-6381 NASA FMEA #: 05-6-2200-1 | | | | | | | ŀ | NASA DAT BASELIN NE | IE [| x] | | |
|---|-----|-------|----------------------|--------|-------|-------------|------|---------------------------|---------|------------|------------|-----|
| SUBSYSTE MDAC ID: | | | EPI 638 DIC | | INV | 1 A | | | | | | |
| LEAD ANA | LY | ST: | ĸ. | SCHME | CKPEI | PER | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | |
| | | FLI | ALITY GHT FUNC | F | | NDANCY B | | REENS | : | CII | | |
| NASA IOA |] | 3 / | 3] 3] |] |] | [|] | [|] | [|] * | t |
| COMPARE | [| / | 3 | [|] | [|] | [|] | [|] | |
| RECOMMEN | DA' | CION | s: (| If dif | fere | ent fr | om 1 | NASA) | | | | |
| | [| / |] | [|] | [|] | [|] (| [ADD/I |] DELET | re) |
| * CIL RE | TE | NTIO: | N RATI | ONALE: | (If | appl | ical | A | DEQUATE | - |] | |

| ASSESSMENT DATE: 6/19/87 ASSESSMENT ID: EPD&C-6382 NASA FMEA #: 05-6-2200-1 | | | | | | | SA DATA ASELINE NEW | |] |
|---|--------------------|---------------------------|-------|-------|--------|----|---------------------------|-----------|-----------------|
| SUBSYSTEM: MDAC ID: ITEM: | | EPD&C 6382 DIODE TO | INV : | 1 B | | | | | |
| LEAD ANALY | ST: | K. SCHME | CKPEP | ER | | | | | |
| ASSESSMENT | ! : | | | | | | | | |
| | RITICALI FLIGHT | ľ | | | SCREE | | | CIL | |
| | HDW/FUI | AC. | A | В | | С | | | |
| NASA [IOA [| 3 /3 |] [|] | [|] | [|] | [|] *] |
| COMPARE [| |] [|] | ſ |] | (|] | [|] |
| RECOMMENDA | TIONS: | (If di | ffere | nt fr | om NAS | A) | | | |
| C | . / |] [|] | [|] | [|] (A | [DD/D |] ELETE |
| * CIL RETE | ENTION 1 | RATIONALE | : (If | appl | icable | AD | EQUATE EOUATE | [|] |

| ASSESSMENT DATE: 6/19/87 ASSESSMENT ID: EPD&C-6383 NASA FMEA #: 05-6-2200-1 | | | | | | | | | ASA DA BASELI N | | • |] | |
|---|------------|----------|------------------------|------|-------|-------|-------|-----|-----------------------|------|-------------|----------|----|
| SUBSYSTE MDAC ID: | | | EPD&C 6383 DIODE | | INV 1 | В | | | | | | | |
| LEAD ANA | LYST | ; | K. SC | HMEC | KPEPE | ER | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | |
| | | LIGH | T | | | | SCRE | | | | CIL ITEM | ſ | |
| | HDW | /FU | NC | A | | В | | С | | | | | |
| NASA IOA | [3 [3 | /3 /3 |] | [|] | [|] | [|] | | [|] | * |
| COMPARE | [| / | 1 | [|] | ĺ |] | [|] | | [| } | |
| RECOMMEN | DATIC | NS: | (If | dif: | feren | t fr | om NA | SA) | | | | | |
| | [| / |] | [|] | [|] | [|] | (ADI | [D/DE |] LE' | TE |
| * CIL RE | TENTI | ON 1 | RATION | ALE: | (If | appl: | icabl | A | DEQUAT | | |] | |
| REMARKS: | | | | | | | | INA | DEQUAT | E [| - | J | |

| ASSESSMENT DATE: 6/19/87 ASSESSMENT ID: EPD&C-6384 NASA FMEA #: 05-6-2200-1 | | | | | | | | ASA D BASEI | | [| [] | | | |
|---|--------|--------|----------|-------------------|--------|------|-------|----------------|------------|-------|-----|-----------|------|-----|
| SUBSYSTE MDAC ID: | M: | | | EPD 638 DIO | | INV | 1 C | | | | | | | |
| LEAD ANA | LYS | ST: | | K. : | SCHMEC | KPEP | ER | | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | | |
| | | FI | LIGH | | | | DANCY | SCI | REENS C | | | CII | | |
| | 1 | HDW | //FU | NC | A | | В | | C | | | | | |
| NASA IOA |] [| 3 3 | /3 /3 |] | [|] | [|] | [|] | | [|] | * |
| COMPARE | [| | / |] | [|] | [|] | [|] | | [|] | |
| RECOMMEN | DA' | TIC | ons: | (| If dif | fere | nt fr | om 1 | NASA) | | | | | |
| | [| | / |] | [|] | [| 3 | [|] | (A | [DD/1 | DELI | ETE |
| * CIL RE | TE: | NT: | CON | RATI | ONALE: | (If | appl | ica | A | DEQUA | | [|] | |

| ASSESSME ASSESSME NASA FME | ENT : | ID: | EPD&C | -638 | | | | N | ASA DA' BASELII N | | x |] | |
|----------------------------------|-------|--------------|------------------------|------|-------|-------|--------|-----|-------------------------|------------|-----------|---|-----|
| SUBSYSTE MDAC ID: | | | EPD&C 6385 DIODE | то | INV | 1 C | | | | | | | |
| LEAD ANA | LYS | T: | K. SC | HMEC | KPEP: | ER | | | | | | | |
| ASSESSME | ENT: | | | | | | | | | | | | |
| | 1 | TICAL: | r | | | | SCRE | | | _ | IL TEN | 1 | |
| | H | DW/FUI | NC | A | | В | | С | | | | | |
| NASA IOA | [| 3 /3 3 /3 |] | [|] | [|] | [|] | ((| |] | * |
| COMPARE | [| / |] | [|] | [|] | [| 3 | [| | j | |
| RECOMMEN | DAT: | ions: | (If | dif: | fere | nt fr | om NAS | SA) | | | | | |
| | [| / |] | ſ |] | [|] | [| |] (ADD) | /DE | | TE) |
| * CIL RE | | TION I | RATION | ALE: | (If | appl | icable | A | DEQUATI DEQUATI | _ | |] | |
| REMARKS: | | | | | | | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6386 | | NASA DATA: BASELINE NEW | | | | | |
|--|------------------------------|---------------------------------|-------------------------------|-------------------|--|--|--|--|
| MDAC ID: | EPD&C 6386 FUSE, 3A TO | 386 USE, 3A TO AC BUS 1C OFF | | | | | | |
| LEAD ANALYST: | K. SCHMECKP | EPER | | | | | | |
| ASSESSMENT: | | | | | | | | |
| CRITICAL: FLIGH | | UNDANCY SCREENS | } | CIL ITEM | | | | |
| HDW/FU | | В | С | | | | | |
| NASA [3 /1R IOA [3 /3 |] [P] |] [AN]] [] | P] | [] * | | | | |
| COMPARE [/N |] [N] | [N] | и] | [] | | | | |
| RECOMMENDATIONS: | (If diffe | rent from NASA) | | | | | | |
| [/ |] [] | [] [|] (A ^r | [] DD/DELETE) | | | | |
| * CIL RETENTION | RATIONALE: (| | ADEQUATE NADEQUATE | | | | | |
| REMARKS: IOA CONCURS WITH THAT THE INPUT R FACT, IT IS NOT. | | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | NASA DATA: BASELINE [] NEW [X] | |
|--|--|--|
| MDAC ID: | EPD&C 6387 FUSE, 3A TO AC BUS 1B C | OFF |
| LEAD ANALYST: | K. SCHMECKPEPER | |
| ASSESSMENT: | | |
| CRITICAL: FLIGH HDW/FU | - | EENS CIL ITEM C |
| NASA [3 /1R IOA [3 /3 |] [P] [NA]] [] [] | [P] []* |
| COMPARE [/N |] [N] [N] | [N] [] |
| RECOMMENDATIONS: | (If different from NA | ASA) |
| [/ |] [] [] | [] [] (ADD/DELETE) |
| * CIL RETENTION | RATIONALE: (If applicabl | ADEQUATE [] |
| | NASA'S ANALYSIS AS IOA ELAY TO THE AC INVERTERS | INADEQUATE [] WAS UNDER THE IMPRESSION WAS LATCHING, WHEN IN |

| ASSESSMENT ASSESSMENT NASA FMEA | ID: | EPD&C-6 | 388 | 1 | | | | | SELINE NEW | [| | |
|--|-------------------|--------------------------|-----|-------|----------|----------|--------|------|----------------|-------------|----------|----|
| SUBSYSTEM: MDAC ID: ITEM: | | EPD&C 6388 FUSE, 3 | А Т | O AC | BUS | 1A (| OFF | | | | | |
| LEAD ANALY | ST: | K. SCHM | ECK | PEPER | | | | | | | | |
| ASSESSMENT | : | | | | | | | | | | | |
| CR | ITICALI FLIGHT | TY | RE | DUNDA | NCY | SCRI | EENS | | | CIL ITEN | 1 | |
| | HDW/FUN | IC | A | | E | 3 | | С | | | | |
| NASA [IOA [| 3 /1R 3 /3 |] [| P |] | [N [| IA]] | [[| P] | | [|] *] | |
| COMPARE [| /N |] [| N |] | [] | ı j | [| N] | | [|] | |
| RECOMMENDA | TIONS: | (If d | iff | erent | fı | om N | ASA) | | | | | |
| ι | / |] [| |] | [|] | [|] | (AI | [DD/DI | | E) |
| * CIL RETE | NTION F | RATIONAL | E: | (If a | pp] | icab | | ADE(| QUATE QUATE | [|] | |
| REMARKS: IOA CONCUR THAT THE I FACT, IT I | NPUT RE | | | | | | WAS | UN | DER THE | E IMI | PRES | |

| ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-6389 NASA FMEA #: 05-6-2297-1 NEW [X] | | | | | | | | | | |
|--|---------------------------|---------------|--------------------|--------------------|--|--|--|--|--|--|
| | EPD&C 6389 FUSE, 3A | TO AC BUS 1C | ON | | | | | | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM | | | | | | | | | | |
| HDW/FU | NC A | В | С | | | | | | | |
| NASA [3 /1F IOA [3 /3 | [P | NA] [NA] | [P] [] | [] * | | | | | | |
| COMPARE [/N |] [N | [и] | [N] | [] | | | | | | |
| RECOMMENDATIONS: | (If dif | ferent from 1 | NASA) | | | | | | | |
| 1 |] [|] [] | [] (A) | [] .DD/DELETE) | | | | | | |
| * CIL RETENTION | RATIONALE: | (If applicat | - | | | | | | | |
| ADEQUATE [] INADEQUATE [] | | | | | | | | | | |
| REMARKS: IOA CONCURS WITH NASA'S ANALYSIS AS IOA WAS UNDER THE IMPRESSION THAT THE INPUT RELAY TO THE AC INVERTERS WAS LATCHING, WHEN IN FACT, IT IS NOT. | | | | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6390 |) -1 | NASA DATA: BASELINE NEW | | | | | | | | |
|--|-----------------------------|-----------------------------------|-------------------------------|----------------------------|--|--|--|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6390 FUSE, 3A T | | | | | | | | | | |
| LEAD ANALYST: | K. SCHMECH | KPEPER | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM | | | | | | | | | | | |
| HDW/FU | | В | С | | | | | | | | |
| NASA [3 /1R IOA [3 /3 |] [P |] [NA]] [] | [P] [] | [] * | | | | | | | |
| COMPARE [/N |] [N |] [N] | [N] | [] | | | | | | | |
| RECOMMENDATIONS: | (If dif | ferent from NAS | SA) | | | | | | | | |
| [/ |] [|] [] | [] (A) | [DD/DELETE) | | | | | | | |
| * CIL RETENTION | RATIONALE: | (If applicable | e) ADEQUATE INADEQUATE | | | | | | | | |
| REMARKS: IOA CONCURS WITH THAT THE INPUT R FACT, IT IS NOT. | NASA'S AN | ALYSIS AS IOA 1 E AC INVERTERS | WAS UNDER THE | E IMPRESSION G, WHEN IN | | | | | | | |

| ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #: | | /06/87 NASA DATA: PD&C-6391 BASELINE 5-6-2297-1 NEW | | | | | | | | |
|---|-----------------------------|---|------------------------|-------------------|--|--|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6391 FUSE, 3A T | TO AC BUS 1A ON | 1 | | | | | | | |
| LEAD ANALYST: | K. SCHMECK | KPEPER | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | |
| FLIG | | EDUNDANCY SCREE B | ens C | CIL ITEM | | | | | | |
| NASA [3 /1 IOA [3 /3 | R] [P |] [NA]] [] | [P] [] | [] * | | | | | | |
| COMPARE [/N |] [N |] [N] | [N] | [] | | | | | | |
| RECOMMENDATIONS | : (If diff | ferent from NAS | SA) | | | | | | | |
| [/ |] [|] [] | [] (A) | [] DD/DELETE) | | | | | | |
| * CIL RETENTION | RATIONALE: | (If applicable | | | | | | | | |
| | | | ADEQUATE INADEQUATE | | | | | | | |
| REMARKS: IOA CONCURS WIT THAT THE INPUT FACT, IT IS NOT | RELAY TO THE | | | | | | | | | |

| | 6/13/87 EPD&C-6392 NEW # UNKNO | WN | NASA DATA: BASELINE [] NEW [X] | | | | | | | | | | |
|---------------------------|--------------------------------------|-----------|-----------------------------------|---------|-------------|------------|--|--|--|--|--|--|--|
| MDAC ID: | EPD&C 6392 FUSE, 3A TO | AC BUS | 3 CMD | | | | | | | | | | |
| LEAD ANALYST: | K. SCHMECKE | EPER | | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | | |
| CRITICAL FLIGH | | UNDANCY | SCREEN | S | CIL ITE | | | | | | | | |
| HDW/FU | NC A | В | | С | | | | | | | | | |
| NASA [3 /3 IOA [3 /3 |] [] | [|] [|] | [|] * | | | | | | | |
| COMPARE [/ |] [] | [|] [| 1 | [|] | | | | | | | |
| RECOMMENDATIONS: | (If diffe | erent fro | om NASA | .) | | | | | | | | | |
| [/ | j [] | [|] [| 1 | [(ADD/D |] ELETE | | | | | | | |
| * CIL RETENTION | RATIONALE: (| (If appl | | ADEQUAT | |] | | | | | | | |

| ASSESSME ASSESSME NASA FME | NT : | ID: | EPD&C | -639 | | | | | NASA DAT BASELIN NE | | |
|----------------------------------|------|--------|------------------------|--------------|--------|-------|-------|-----|---------------------------|-----------|--------------|
| SUBSYSTE MDAC ID: | | | EPD&C 6393 FUSE, | 3 A ' | TO AC | BUS | 3 CM | D | | | |
| LEAD ANA | LYSI | r: | K. SC | HMEC: | KPEPE | R | | | | | |
| ASSESSME | NT: | | | | | | | | | | |
| | | TICAL: | | R | EDUNDA | ANCY | SCRE | ENS | | CI | L EM |
| | HI | OW/FUI | 1C | A | | В | | • | С | | . — - |
| NASA IOA | [3 | 3 /3 |] | [|] | [|] |] |] |] |] *] |
| COMPARE | [| / |] | [|] | [|] | [|] | [|] |
| RECOMMEN | DATI | ons: | (If | dif | ferent | fre | om NA | SA) | | | |
| | [| / |) | [|] | [|] | [| | [ADD/ |] DELETE) |
| * CIL RE | TENT | PION F | RATION | ALE: | (If a | appl: | icabl | 1 | ADEQUATE ADEQUATE | |] |

| ASSESSME ASSESSME NASA FME | NT | ID: | : | EPD& | /19/87 PD&C-6394 5-6-2202-1 | | | | | | | | ELI | DATA: LINE [NEW [X | | | | | | |
|----------------------------------|-----|------|-----------|----------------------|-----------------------------------|---------|------|-----|----|--------|------|-------|--------|--------------------------------|-----|-----|----|---------|---|-----|
| SUBSYSTE MDAC ID: | M: | | | EPD& 6394 DIOD | | ISC | OLA: | rio | N | то | IN | IV 1 | A (| OFF | | | | | | |
| LEAD ANA | LYS | T: | | ĸ.s | CHM | ECI | KPE | PER | | | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | | | | |
| | | FL. | IGHT | ITY [| | RI A | EDUI | NDA | | Y B | SCF | REEN | s c | | | | CI | L EM | | |
| NASA IOA | | | /1R /3 | | [| P |] | | [| NA |] |] | P |] | | | [| : |] | * |
| COMPARE | [| , | /N |] | ſ | N |] | | [| N | 3 | [| N |] | | | [| • |] | |
| RECOMMEN | DAT | 'IOI | NS: | (I | f d | if: | fer | ent | f | rc | m N | IASA |) | | | | | | | |
| | [| , | / |] | [| |] | | [| |] | [| |] | | (Al | | DE | | TE) |
| * CIL RE | TEN | TI(| ON I | RATIO | NAL | E: | (I: | f a | pp | 1 i | .cak | _ | | DEQ DEQ | | | | |] | |
| REMARKS: IOA CONC INVERTER | | | | | | | | | D | UE | т | со со | NC | ERN | S A | BO | UT | AC | | |

| ASSESSME ASSESSME NASA FME | NT I | D: | EPD&C | 5/19/87 PD&C-6395 5-6-2202-1 | | | | | | NASA DATA: BASELINE [] NEW [X] | | | | | | | | |
|----------------------------------|------|---------------------------|------------------------|------------------------------------|---------|-----|------|----------|------------|---|-----|-----|--------------|-----------|---------|---------|----|--|
| SUBSYSTE MDAC ID: | M: | | EPD&C 6395 DIODE | ,] | ISC |)LA | TION | ľ | 0 I | NV 11 | 3 (| OFF | | | | | | |
| LEAD ANA | LYSI | ?: | K. SC | HMI | ECI | KPE | PER | | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | | |
| , | F | CICAL: LIGH: DW/FUI | r | | RI A | EDU | NDAN | ICY B | | REENS | c | | | CI | L EM | Ī | | |
| NASA IOA | [3 | /1R //3 |] | [| P |] | [| N | A] |] | P |] | | [| |] | * | |
| COMPARE | [| /N | 1 | [| N |] | [| N |] | [| N |] | | [| |] | | |
| RECOMMEN | DATI | ONS: | (If | đi | ifi | fer | ent | fr | om 1 | NASA) | į÷ | | | | | | | |
| | [| / |] | [| |] | (| • |] | [| |) | (A | [\DD/ | 'DE |] LE | TE | |
| * CIL RE | TENT | 'ION I | RATION | ALE | 3: | (I | f ap | pl | ical | • | | | UATE UATE | • | |] | | |
| TOA CONC | IIRS | итти | NASA | ? 2 | NZ | T.V | STS | וזמ | ድ ጥረ | CON | CE | DNO | 2 A BO | יחיו | 3.0 | | | |

| | 6/19/87 EPD&C-6396 05-6-2202- | | | ASA DATA: BASELINE NEW | |] | | |
|------------------------------|-------------------------------------|----------------|-----------|------------------------------|------------|-------------|--|--|
| | EPD&C 6396 DIODE, ISC | | | | | | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | | | | |
| ASSESSMENT: | | | | | | | | |
| CRITICAL FLIGH HDW/FU | T | EDUNDANCY B | SCREENS | ! | CIL | í | | |
| NASA [3 /1R IOA [3 /3 |] [P |] [NA | A] [P |] | [|] * | | |
| COMPARE [/N |] [N |] [N |] [N | 1 | [|] | | |
| RECOMMENDATIONS: | (If dif | ferent fro | om NASA) | | | | | |
| [/ |] [|] [|] [|] (A | [DD/DE |] ELETE) | | |
| * CIL RETENTION | RATIONALE: | (If appl: | A | DEQUATE | [|] | | |
| REMARKS: IOA CONCURS WITH | NASA'S AN | ALYSIS DU | E TO CONC | ERNS ABO | UT AC | 2 | | |

| ASSESSME ASSESSME NASA FME | NT I | D: | 6/19/87 EPD&C-6397 05-6-2202-1 | | | | | | NASA DATA: BASELINE [] NEW [X] | | | | | | | | |
|----------------------------------|------------|----------------------|--------------------------------------|-----|---------|-------|--------|----------|---|--------|--------|-------|------|----------|------------|------|--|
| SUBSYSTE MDAC ID: | M: | | EPD&C 6397 DIODE | | IS | OLA | TIO | 1 1 | ro 1 | INV 2 | A (| OFF | | | | | |
| LEAD ANA | LYST | • | K. SC | HMI | EC! | KPE | PER | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | |
| | F | ICAL LIGH W/FU | T | | RI A | EDU | NDAN | ICY E | | CREENS | s C | | | CI | L EM | | |
| NASA IOA | [3 [3 | /1R /3 |] |] | P |] | { (| N | IA] | [| P |] | | [|] | * | |
| COMPARE | [| /N |] | [| N |] | (| N | [] | [| N |] | | [| J | | |
| RECOMMEN | DATI | ons: | (If | di | Ĺfí | fer | ent | fr | om | NASA) |) | | | | | | |
| | [| / |] | [| |] | [| |] | Į | |] | (A | [DD/ | DELI | ETE) | |
| * CIL RE | TENT | ION 1 | RATION | ALE | €: | (I | f ap | pl | ica | · | | DEQU. | | [|] | | |
| IOA CONC | URS | WITH | NASA! | SA | NZ | \T.V! | STS | וזת | ग्र ग्र | ים כטג | ICE | פאסי | A BO | יחיז | 3 C | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6398 | NASA DATA: BASELINE [] NEW [X] | | | | | | | | |
|--|--------------------------------|-----------------------------------|----------------------|-------------|------------|--|--|--|--|--|
| | EPD&C 6398 DIODE, ISOLAT | ION TO INV 2B | OFF | | | | | | | |
| LEAD ANALYST: | к. SCHMECKPEP | ER | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | |
| CRITICAL FLIGH HDW/FU | T | DANCY SCREENS B | : | CIL ITEM | | | | | | |
| NASA [3 /1R IOA [3 /3 |] [P] | [AN] [I | '] | [|] * | | | | | |
| COMPARE [/N |] [N] | [N] [N | ī] | [|] | | | | | |
| RECOMMENDATIONS: | (If differe | ent from NASA) | | | | | | | | |
| [/ |] [] | [] [|] (A) | [DD/DE | | | | | | |
| * CIL RETENTION | RATIONALE: (If | 1 | ADEQUATE ADEQUATE | [|] | | | | | |
| REMARKS: IOA CONCURS WITH INVERTER OVERVOL | | | CERNS ABOU | UT AC | | | | | | |

| ASSESSMENT DATE: | 6/19/8/ | _ | | NASA DATA | |
|--------------------------------|------------|----------|-------------|-----------------|------------------|
| ASSESSMENT ID: NASA FMEA #: | EPD&C-639 | | | BASELINE NEW | ; [] ! [X] |
| | 00 0 2202 | • | | N.D. | (A) |
| SUBSYSTEM: | EPD&C | | | | |
| | 6399 | | | | |
| ITEM: | DIODE, IS | OLATION | TO INV : | 2C OFF | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL | ITY R | EDUNDANC | Y SCREEN | is | CIL |
| FLIGH' | r | | | | ITEM |
| HDW/FU | NC A | | В | С | |
| NASA [3 /1R | ם נ | 1 r | MA 1 | | |
| NASA [3 /1R IOA [3 /3 |] [P | J [| NA]] | [P] | [] * |
| 10A (3 / 3 | 1 (|) [| j i | | L J |
| COMPARE [/N |] [N | 1 r | N] | [N] | [] |
| . , | | | | | . , |
| RECOMMENDATIONS: | ITE ALE | forent f | wam MACI | | |
| RECOMMENDATIONS. | (II dil | rerenc r | TOM NASA | 2) | |
| [/ |] [|] [|] (| .] | r 1 |
| , | , . | | , | | DD/DELETE |
| | | | | · | |
| * CIL RETENTION | RATIONALE: | (If app | licable) | | _ |
| | | | _ | ADEQUATE | [] |
| REMARKS: | | | | INADEQUATE | [] |
| IOA CONCURS WITH | NASA'S AN | ALVSTS D | ווד ייט כים | NCERNS ARO | IIT AC |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/19/87 EPD&C-6400 05-6-2202- | | | NASA DATA BASELINE NEW | |] |
|--|-------------------------------------|-----------|----------|------------------------------|-------------|-------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6400 DIODE, ISC | OLATION T | O INV 3 | OFF | | |
| LEAD ANALYST: | K. SCHMECE | KPEPER | | | | |
| ASSESSMENT: | | | | | | |
| CRITICAL FLIGH | r | EDUNDANC) | | | CIL ITEM | I |
| HDW/FU | NC A | I | 3 | С | | |
| NASA [3 /1R IOA [3 /3 | |] [1 |] [AI | P] | [|] * |
| COMPARE [/N |] [N |] [1 | 4] [| и] | [|] |
| RECOMMENDATIONS: | (If dif | ferent f | com NASA |) | | |
| [/ |] [|] [|] [|] (A | [DD/DE |] ELETE) |
| * CIL RETENTION | RATIONALE: | (If app | | ADEQUATE NADEQUATE | [|] |
| REMARKS: IOA CONCURS WITH INVERTER OVERVOL | | | JE TO CO | NCERNS ABO | UT AC | ; |

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|----------------------------------|----------------------|--|------------------------|-----------|-----------|--------|---------|---|--------|-----------|--------------|----------|-----------|----------|------|--|--|
| SUBSYSTE MDAC ID: ITEM: | .M: | | EPD&C 6401 DIODE | | | | | | V 31 | в (| OFF | | | | | | |
| LEAD ANA | LYST | : | K. SCI | IME | CKP | EPER | | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | |
| | F | ICAL: LIGH: W/FUI | | | REDI A | UNDAN | CY B | SCR | EENS | - | | | CII | | | | |
| | | • | | | | | _ | | | С | | | | | | | |
| NASA IOA | [3 [3 | /1R /3 |] | [| P] |] [| N | A]] | [[| P |] | |] |] | * | | |
| COMPARE | [| /N | 3 | [| и] | C | N |] | [| N |] | | [|] | | | |
| RECOMMEN | DATI | ons: | (If | di | ffe | rent | fr | om Ni | ASA) | | | | | | | | |
| | [| / |] | [|] | | |] | [| |] | (Al | [DD/D |) ELF | ETE) | | |
| * CIL RE | TENT | ION F | RATTONA | AT.E | : (1 | If an | nl i | icah' | ۱۵۱ | | | | | | | | |
| | | | | | - (- | wp. | | . Oub | - | AE IAI | EQUA EQUA | TE TE | [|] | | | |
| REMARKS: IOA CONC INVERTER | URS V | WITH RVOLT | NASA'S | Al ND: | NAL) | SIS | DUI | е то | | | | | • | • | | | |
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| SUBSYSTE MDAC ID: | | | EPD&C 6402 DIODE | , I | SOLAT | T MOI | O IN | IV 3C (| OFF | | | |
| LEAD ANA | LYSI | !: | K. SC | HME | CKPEF | PER | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | |
| | | 'ICAL' | | 1 | REDUN | IDANCY | SCF | REENS | | | CII | |
| | | W/FU | | • | A | В | i | С | | | | |
| NASA IOA | [3 | /1R /3 |] | [| P] | [N | 'A] | [P [|]] | | [|) * |
| COMPARE | [| /N | 1 | [| и] | [N |] | [1 |] | | (| 1 |
| RECOMMEN | DATI | ONS: | (If | di | ffere | ent fr | om 1 | NASA) | | | | |
| | [| / |] | (|] | [|] | [|) | (A | |] DELETE) |
| * CIL RE | TENI | CION : | RATION | ALE | : (I1 | f appl | icak | A | DEQU DEQU | ATE ATE | [|] |
| REMARKS: | URS | WITH | NASA' | S A | NALYS | SIS DU | E TO | | | | | |

| ASSESSMEI ASSESSMEI NASA FME | NT I | D: | 6/19/ EPD&C 05-6- | -640 | - | | | N | IASA DA! BASELII NI | |] |
|------------------------------------|------|-----------------|-------------------------|------|-------|--------|--------|------------|---------------------------|-------------|----------|
| SUBSYSTEM MDAC ID: | M: | | EPD&C 6403 DIODE | , IS | OLAT: | ION TO | O INV | 1 A | OFF | | |
| LEAD ANA | LYSI | ? : | K. SC | HMEC | KPEP | ER | | | | | |
| ASSESSME | NT: | | | | | | | | | | |
| • | F | 'ICAL 'LIGH' | r | | EDUNI | DANCY | SCRE | | | CIL | |
| | HD | W/FU | NC | A | | В | | C | : | | |
| NASA IOA | [3 | /3 |] | [|] | [[|] | [|] . | [|] *] |
| COMPARE | [| / |] | [|] | [|] | [|] | [|] |
| RECOMMEN | DATI | ONS: | (If | dif | fere | nt fro | om NA | SA) | | | |
| | [| / | 1 | [|] | [|] | [| | [(ADD/D | |
| * CIL RE | TENT | 'ION I | RATION | ALE: | (If | appl | icable | A | DEQUATI | • |] |
| REMARKS: | | | | | | | | TNA | DEQUATI | Ξ [| j |

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| SUBSYSTE MDAC ID: | | | EPD&C 6443 DIODE | | SOI | ATION | Te | O IN | V 2B | 3 C | FF | | | | |
| LEAD ANA | LYST | : | K. SC | HME | CKI | PEPER | | | | | | | | | |
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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-644 | | | NASA DATA: BASELINE NEW | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6444 DIODE, IS | OLATION | TO INV 2 | C OFF | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | | |
| ASSESSMENT: | | | | | | |
| CRITICAL | | EDUNDANC | Y SCREEN | s | CIL ITEM | |
| FLIGH HDW/FU | | . | В | С | 11111 | |
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| SUBSYSTE MDAC ID: | | EPD&0 6445 DIODE | | ION TO IN | IV 3A OFF | |
| LEAD ANA | LYST: | K. SC | CHMECKPEP | ER | | |
| ASSESSME | NT: | | | | | |
| | CRITICA FLIG | HT | REDUN | DANCY SCR | REENS | CIL ITEM |
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| | EPD&C 6447 DIODE, ISOLAT | ION TO INV | 3C OFF | |
| LEAD ANALYST: | K. SCHMECKPEP | ER | | |
| ASSESSMENT: | | | | |
| CRITICAL FLIGH | r | DANCY SCRE | | CIL ITEM |
| HDW/FUI | NC A | В | С | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6448 DIODE, ISC | LATION TO |) INV 1 | A ON | | |
| LEAD ANALYST: | K. SCHMECK | (PEPER | | | | |
| ASSESSMENT: | | | | | | |
| CRITICAL FLIGH | | EDUNDANCY | SCREEN | S | CII | |
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| LEAD ANA | LYS | r: | K. S | CHME | CKPEP | ER | | | | | | | |
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| SUBSYSTE MDAC ID: | | | EPD&C 6451 DIODE | | OLAT: | r noi | 'NI O | V 2A | ON | | | | |
| LEAD ANA | LYS | ST: | K. sc | HMEC | KPEPI | ER | | | | | | | |
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| LEAD ANA | LEAD ANALYST: K. SCHMECKPE | | | | | | | | | | | | | | |
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| LEAD ANALYST | K. SC | НМЕСКРЕРЕ | R | | | | |
| ASSESSMENT: | | | | | | | |
| F | CICALITY CLIGHT W/FUNC | REDUND A | ANCY B | SCREE | ns C | CI II | IL TEM |
| | /3] | [] | [|] | [] |] |] * |
| COMPARE [| / 1 | [] | [|] | [] | [|] |
| RECOMMENDATI | ONS: (If | differen | nt fr | om NAS | A) | | |
| Ţ | / 1 | [] | ľ |] | [] |] (A DD, |] /DELETE |
| * CIL RETENT | TION RATION | ALE: (If | appl. | icable | ADE | QUATE [QUATE [|] |

| ASSESSME ASSESSME NASA FME | CNT | I | | 12/17 EPD&0 05-6- | -651 | | | | 1 | | DATA ELINE NEW | | |
|----------------------------------|------|--------|--------------|-------------------------|------|------|-------|-------|------|----|----------------------|----------|--------------|
| SUBSYSTE MDAC ID: ITEM: | | | | EPD&C 6512 CIRCU | | REAK | ER, : | 3A (A | C 1A | то | FWD R | cs | VALVES) |
| LEAD ANA | LY | ST | : | K. SC | HMEC | KPEP | ER | | | | | | |
| ASSESSME | NT | : | | | | | | | | | | | |
| | CR | | ICAL LIGH | ITY | R | EDUN | DANC | SCR | EENS | | | CI | L EM |
| |] | | W/FU | | A | | 3 | 3 | (| С | | 11 | EM |
| NASA IOA | [| 3 3 | /3 /3 |] | [|] | [|] | [|] | | [|] *] |
| COMPARE | [| | / |] | [|] | [|] | [|] | | [| 1 |
| RECOMMEN | 'DA' | ri(| ons: | (If | dif | fere | nt fi | com N | ASA) | | | | |
| | [| | / |] | [|] | [|] | [|] | (A | [DD/ |] DELETE) |
| * CIL RE | TEI | NT: | ION | RATION | ALE: | (If | app] | licab | 1 | | UATE UATE | [|] |
| REMARKS: | | | | | | | | | | | | | |

| ASSESSME ASSESSME NASA FME | NT | II |): | EPD | 17/87 &C-651 6-2617 | .3 | | | 1 | BASEI | | | | |
|----------------------------------|------|----|-----------|-------------------|---------------------------|-------|---------------------|------|------|-----------------|------|------|-------|-----|
| SUBSYSTE MDAC ID: ITEM: | | | | EPD 651 CIR | | BREAK | ER, 3. | A (A | C 1B | TO FV | D RC | :s 7 | VALVE | S) |
| LEAD ANA | LYS | ST | : | K. | SCHMEC | KPEP | ER | | | | | | | |
| ASSESSME | ENT | : | | | | | | | | | | | | |
| | | F | LIGH | | F | | D ANC Y B | | | c | | CI: | | |
| NASA IOA | [| 3 | /3 /3 |] | [|] |] |] | [|] | | [|] ; | ŧ |
| COMPARE | [| | / |] | [|] . | ſ |] | [|] | | [|] | |
| RECOMMEN | NDA' | TI | ons: | (| If di | ffere | nt fr | om N | ASA) | | | | | |
| | [| | / |] | [|] | [|] | [|] | | | DELE: | re) |
| * CIL RI | ETE | NT | ION | RATI | ONALE | : (If | appl | icab | | ADEQU. ADEOU | | [|] | |

| ASSESSMI ASSESSMI NASA FMI | ENT | ID: | EPD | &C-651 | | | | | NASA DA' BASELI N | | |
|----------------------------------|-------------|----------------|-------------------|--------|-------|--------|--------|-------|-------------------------|--------|--------------|
| SUBSYSTE MDAC ID: | | | EPD 651 CIR | 4 | BREAL | ŒR, : | 3A (A | .c 1c | TO FWD | RCS | VALVES) |
| LEAD ANA | LYS | ST: | K. | SCHME | KPE | PER | | | | | |
| ASSESSME | NT: | } | | | | | | | | | |
| | | TICAL FLIGH | T | | | IDANC | | | | CI | L EM |
| | H | IDW/FU | NC | A | • | I | 3 | • | С | | |
| NASA IOA | [| 3 /3 3 /3 |] | [|] |] [|]] | [|] | [[|] * |
| COMPARE | [| / |] | . [|] | [|) | [|] | [| 1 |
| RECOMMEN | DA I | CIONS: | (| If dif | fere | nt fr | om N | ASA) | | | |
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| * CIL RE | TEN | TION 1 | RATI(| ONALE: | (If | appl | licab | - | ADEQUATE | 3 [|] |
| DEMA DEG. | | | | | | | | IN | ADEQUATE |] 2 | j |

| ASSESSME ASSESSME NASA FME | NT | ID: | 1 | 12/17/ EPD&C- 05-6-2 | -6515 | -2 | | | , | NASA DA'I BASELIN NE | | |
|----------------------------------|-----|------|----------|----------------------------|-------|-------|------------|-------|-----|----------------------------|-----|---------------|
| SUBSYSTE MDAC ID: | | | | EPD&C 6515 CIRCUI | IT BE | REAKE | CR, 32 | A (AC | 2A | TO FWD | RCS | VALVES) |
| LEAD ANA | LYS | ST: | | K. SCI | HMECH | KPEPE | ER | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | |
| | | FLI | GHT | _ | | | DANCY B | SCRE | | С | C: | IL FEM |
| NASA IOA | [| 3 / | /3 /3 |] | [|] |] |] | [|] | [|] * |
| COMPARE | [| / | , |] | [|] | [| 3 | [|] | [|] |
| RECOMMEN | DAT | rion | 1S: | (If | dif | fere | nt fr | om NA | SA) | | | |
| | ĺ | / | / |] | [|] | [|] | [| 1 | |] /DELETE) |
| * CIL RE | TEI | OITN | я ис | RATION | ALE: | (If | appl | icabl | | ADEQUAT IADEQUAT | |] |

| ASSESSM ASSESSM NASA FM | ent | I | | EPD | 17/87 &C-651 6-2617 | | | | 1 | NASA DA BASELI N | | x] |
|-------------------------------|------------|--------|--------------|-------------------|---------------------------|------|---------|-------|-------|------------------------|------------|--------------|
| SUBSYSTI MDAC ID ITEM: | | | | EPD 651 CIR | .6 | REAL | KER, 3 | BA (A | AC 2B | TO FWD | RCS | VALVES) |
| LEAD AND | \LY | ST | : | ĸ. | SCHMEC | KPEI | PER | | | | | |
| ASSESSMI | ENT | : | | | | | | | | | | |
| | CR | | ICAI LIGH | LITY IT | R | EDUN | NDANC'S | SCR | REENS | | CI | L EM |
| | 1 | HD | W/FU | JNC | A | | F | 3 | (| C | | |
| NASA IOA | [| 3 3 | /3 /3 |] |] |] |] |] | [|] | [|] * |
| COMPARE | [| | / |] | [|] | [|] | [|] | [| 1 |
| RECOMMEN | IDA! | ri(| ons: | (| If dif | fere | ent fr | om N | ASA) | | | |
| | [| | / |] | [|] | [| 3 | [| | [(ADD/ |] DELETE) |
| * CIL RE | TEI | NT: | ION | RATI | ONALE: | (If | appl | icab | A | ADEQUAT: | _ |] |

| ASSESSME ASSESSME NASA FME | NT | II | | EPD | L7/87 &C-651 5-2617 | | | | N | ASA I BASEI | | | | |
|----------------------------------|--------|--------|----------|-------------------|---------------------------|------------|-------|------|-------|----------------|-------|----------|-------|-----|
| SUBSYSTE MDAC ID: | M: | | | EPD 651 CIR | | REAK | ER, 3 | A (A | C 2C | TO FV | ND RC | s 7 | VALVE | ES) |
| LEAD ANA | LYS | ST | • | K. : | SCHMEC | KPEP | ER | | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | | |
| | | F | LIGH | | F A | DANCY B | SCR | EENS | 2 | | CI: | | | |
| | 1 | ועני | W/FU | NC | £ | 1 | b | | • | _ | | _ | | |
| NASA IOA | [[| 3 3 | /3 /3 |] | [|] | [|] | [|] | | [|] ' | к . |
| COMPARE | [| | / |] | [| 3 | [|] | [|] | | [| 1 | |
| RECOMMEN | IDA' | ΤI | ons: | . (| If di | ffere | nt fr | om N | IASA) | | | | | |
| | [| | / |] | [|] | [|] | [|] | (AI | [)D/ | DELE | TE) |
| * CIL RE | ETE | NT | ION | RATI | ONALE | : (If | appl | icak | | ADEQU ADEQU | | [|] | |

| ASSESSMI ASSESSMI NASA FMI | ENT | I | | EPD& | 7/87 C-65 -261 | 18 | | | | NASA D BASEL | | |
|----------------------------------|-----|--------|--------------|----------------------|----------------------|-------|--------|-------|-------|-----------------|-------|---------------|
| SUBSYSTE MDAC ID: | | | | EPD& 6518 CIRC | | BREAI | KER, : | 3A (# | LC 3A | TO FW | D RCS | VALVES) |
| LEAD ANA | LY | ST | : | K. S | CHME | CKPEI | PER | | | | | |
| ASSESSME | ENT | : | | | | | | | | | | |
| | CR | | ICAL | | 1 | REDUN | IDANC: | SCR | EENS | | | IL |
| | 1 | | LIGH W/FU | NC | 1 | A | 1 | 3 | (| С | ľ | rem |
| NASA IOA |] | 3 3 | /3 /3 |] | [|] |] |] | [|] | [|) *] |
| COMPARE | (| | / |] | [|] | [|] | [|] | [|] |
| RECOMMEN | DAT | CIO | ons: | (I | f di | fere | nt fr | om N | ASA) | | | |
| | [| | / |] | [|] | [|] | [|] | (ADD) |] 'DELETE) |
| * CIL RE | TEN | VT: | ION : | RATIO | NALE: | (If | appl | icab. | 1 | ADEQUAT | |] |
| VELIVINO: | | | | | | | | | | | | |

| ASSESSME ASSESSME NASA FME | NT | II | | EPD8 | .7/87 C-65 5-261 | 19 | | | | ASA I BASE | | | |
|----------------------------------|-----|--------|--------------|----------------------|------------------------|--------|--------|-------|-------|----------------|-------|-----------|--------------|
| SUBSYSTE MDAC ID: | | | | EPD& 6519 CIRC | ` | BREAK | ŒR, 3 | A (A | С 3В | TO F | WD RC | s v | ALVES) |
| LEAD ANA | LYS | ST: | : | к. 8 | SCHME | ECKPEP | PER | | | | | | |
| ASSESSME | ENT | : | | | | | | | | | | | |
| | CR | | ICAL LIGH | ITY | | REDUN | IDANCY | SCR | EENS | | | CIL | |
| | 1 | | W/FU | | | A | E | 3 | C | 2 | | | |
| NASA IOA | [| 3 3 | /3 /3 |] | [[|] | [[|] |] |] | | [|] * |
| COMPARE | [| | / |] | [|] | [|] | [|] | | [|] |
| RECOMME | NDA | TI | ONS: | (| If d | iffer | ent fi | com N | IASA) | | | | |
| | [| | / |] | [| 1 | [, |] | [|] | (Al | [DD/I |] DELETE) |
| * CIL R | ETE | NT | ION | RATI | ONAL | E: (I: | f appi | licab | | ADEQU ADEQU | | [|] |

| ASSESSME ASSESSME NASA FME | NT | I | D: | EPD | 17/87 &C-65: 6-261: | | | | | NASA I BASEI | DATA: LINE (NEW (| |] |
|----------------------------------|---------------|--------|--------------|-------------------|---------------------------|-------|--------|---------------|-------|------------------|--------------------------|-----------|----------|
| SUBSYSTE MDAC ID: | | | | EPD 652 CIR | 0 | BREAI | KER, : | 3A (<i>A</i> | AC 30 | TO FV | ND RCS | VA] | LVES) |
| LEAD ANA | LY | ST | : | K. | SCHME | CKPEI | PER | | | | | | |
| ASSESSME | NT | : | | | | | | | | | | | |
| | CR: | | ICAI LIGH | YTI | F | REDUN | NDANC? | scr | REENS | | | IL | |
| | 1 | | W/FU | _ | A | 1 | I | 3 | | С | 1 | TEM | |
| NASA IOA | [| 3 3 | /3 /3 |] | ן נ |] |] |] | [|] | [[|] | * |
| COMPARE | [| | / |] | [|] | [|] | [|] | [|) | l |
| RECOMMEN | D A 'I | ric | ONS: | (| If dif | fere | ent fr | om N | ASA) | | | | , |
| | [| | / |] | [|] | [| 1 | [|] |] (ADD) |] /DEL | LETE) |
| * CIL RE | ren | TI | ON | RATIO | ONALE: | (If | appl | icab | | | | | |
| DEWARKS. | | | | | | | | | | ADEQUA ADEQUA | |] | |

| ASSESSME ASSESSME NASA FME | NT I | D: | EPD | &C-65 | | | | | | | | | | | | |
|---|-------|------------|------|--------|--------|------|--------|--------|-------|-----|--------|-------|-----|-----------|------------|----|
| SUBSYSTEM: EPD&C MDAC ID: 6521 ITEM: CIRCUIT BREAKER, 3A (AC 1A TO FWD RCS VALLEAD ANALYST: K. SCHMECKPEPER | | | | | | | | | | | | LVES | 5) | | | |
| LEAD ANA | LYST | : | ĸ. | SCHME | CK | PEPE | R | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | |
| | | LIGH' | r | | | מאטמ | ANC | | SCRE | EEN | s c | | | CIL | 1 | |
| | HD | W/FU | NC | | A | | | В | | | C | | | | | |
| NASA IOA | [3 | /1R /2R |] | [[| P P |] | [[| F P |] |] | P P |] | | [X |] * | |
| COMPARE | [| /N |] | [| |] | [| N |] | [| |] | | [и |] | |
| RECOMMEN | IDATI | ons: | (| (If di | lff | eren | t : | fro | om NA | ASA |) | | | | | |
| | [| / |] | [| |] | [| |] | [| |] | (Al | [D/D | | E) |
| * CIL RE | | NOI | RATI | CONALI | ₹: | (If | ap | pl: | icab: | | | DEQUA | | [X |] | |
| REMARKS: | • | | | | | | | | | | | | | | | |

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF

THE CIRCUIT.

| ASSESSMENT DA ASSESSMENT ID NASA FMEA #: | | -6522 | | NASA DATA BASELINE NEV | |
|--|-------------------------|--------------------|----------------|------------------------------|-----------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6522 CIRCU] | T BREAKER | R, 3A (AC | 1B TO FWD F | RCS VALVES) |
| LEAD ANALYST: | K. SCH | IMECKPEPE F | t | | |
| ASSESSMENT: | | | | | |
| FL | CALITY JIGHT | REDUNDA | NCY SCRE | ENS | CIL ITEM |
| HDW | /FUNC | A | В | С | |
| NASA [3 IOA [3 | /1R] /2R] | [P] [P] | [F] [P] | [P] [P] | [X] * [] |
| COMPARE [| / N] | [] | [N] | [] | [N] |
| RECOMMENDATIO | NS: (If | different | from NA | SA) | |
| [. | /] | [] | [] | | [DD/DELETE) |
| * CIL RETENTI | ON RATIONA | LE: (If a | pplicable | e) ADEQUATE INADEQUATE | |
| REMARKS: IOA CONCURS W THE CIRCUIT. | ITH NASA'S | REEVALUA | TION AFT | | • • |

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NASA DATA:

| ASSESSMEN ASSESSMEN NASA FME | NT II | | EPD | 17/87 &C-6523 6-2617- | 1 | | | | | | | A: E [W [X | | 3 | |
|------------------------------------|-------|------------|-------------------|-----------------------------|--------|------------|------------|--------------|-------|------------|-------|----------------------|----------|------|----|
| SUBSYSTEM MDAC ID: | M: | | EPD 652 CIR | | EAKER | ١, | 3 <i>A</i> | . (<i>1</i> | C 10 | TO | FWD | RCS V | ALV | ES) | |
| LEAD ANA | LYST | : | ĸ. | SCHMECK | PEPER | ł | | | | | | | | • | |
| ASSESSME | NT: | | | | | | | | | | | | | | |
| | CRIT | | | RE | DUNDA | NC | Y | SCI | REENS | } | | CIL ITE | | | |
| | | LIGH' | | A | | | В | | | С | | | | | |
| NASA IOA | | /1R /2R | | [P |] | [| F P |] | [| P] P] | | [X [|] | * . | |
| COMPARE | [| /N |] | [|] | [| N |] | ſ |] | | [N |] | | • |
| RECOMMEN | DATI | ons: | (| If diff | feren | t 1 | fro | om 1 | NASA) |) | | | | | |
| | [| / | 1 | [|] | [| |] | [|] | | [(A DD/E | ELI | ETE) | |
| * CIL RE | TENT | ION | RAT] | ONALE: | (If | ap) | pl: | ica | | | QUAT: | _ | []] | | |
| REMARKS: IOA CONC THE CIRC | URS | WITH | NAS | SA'S RE | EVALU. | AΤ | IO | n A | FTER | FUR | THER | EXAMI | :NA | TION | OF |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 12/17/87 EPD&C-652 05-6-2617 | | | ASA DATA: BASELINE NEW | [] [x] |
|--|------------------------------------|------------|------------|------------------------------|---------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6524 CIRCUIT E | BREAKER, 3 | A (AC 2A ' | TO FWD RO | CS VALVES) |
| LEAD ANALYST: | K. SCHME | CKPEPER | | | |
| ASSESSMENT: | | | | | * |
| CRITICALI FLIGHT | | REDUNDANCY | SCREENS | | CIL ITEM |
| HDW/FUN | IC A | В | С | | 11111 |
| NASA [3 /1R IOA [3 /2R | | P] [F |] [P |] | [X] * |
| COMPARE [/N |] [|] [N |] [| 1 | [· N] |
| RECOMMENDATIONS: | (If dif | ferent fro | om NASA) | | |
| 1 |] [|] [|) (| _ | [] D/DELETE) |
| * CIL RETENTION R | ATIONALE: | (If appli | AD | DEQUATE DEQUATE | [X] |
| REMARKS: IOA CONCURS WITH THE CIRCUIT. | NASA'S RE | EVALUATION | | | AMINATION OF |

| ASSESSMEN ASSESSMEN NASA FMEA | T II | | 12/3 EPD | &C-(| 5525 | | | | | | _ | SA D ASEL | | [| | | | |
|-------------------------------------|----------|--------------|-------------------|------|------------|------|--------|------------|------|-------|--------|--------------|------|----------|---------|----------|-----|----|
| SUBSYSTEM MDAC ID: ITEM: | : | | EPD 652 CIR | 5 | r BI | REAK | ER, | 3 <i>A</i> | . (A | AC 21 | I E | O FW | D RO | es ' | VA | LVI | ES) | |
| LEAD ANAI | LYST | : | K. | SCH | MECI | KPEP | ER | | | | | | | | | | | |
| ASSESSMEN | VT: | | | | | | | | | | | | | | | | | |
| C | CRIT: | ICAL LIGH | | | R | EDUN | DANC | | SCI | REEN | | | | CI IT | L EM | | | |
| | HD | W/FU | NC | | A | | | В | | | С | | | | | | | |
| NASA IOA | [3 | /1R /2R |] | | [P [P |] | [[| F P |] | [| P P |] | | [| X |] | * | |
| COMPARE | C | /N | 3 | | [|) | [| N |] | [| |] | | [| N |] | | |
| RECOMMEN | DATI | ons: | (| If | dif | fere | ent i | fro | om 1 | NASA |) | | | | | | | |
| | [| / | 1 | | [|] | [| |] | [| |] | (A | [DD/ | /DE |] :LE | TE) | |
| * CIL RE | TENT | ION | RATI | ONA | LE: | (II) | f ap | pl: | ica | | | DEQUA | | | x |] | | |
| REMARKS: | URS | WITH | I NAS | SA'S | RE | EVA | LUAT | IO | N A | FTEF | F | URTH | ER E | XAI | (IN | 1AT | ION | OF |

THE CIRCUIT.

| ASSESSME ASSESSME NASA FME | ent 1 | D: | 12/17 EPD&0 05-6- | -652 | 26 | | | nasa i Basei | DATA: LINE [] NEW [X] |
|----------------------------------|-------|-----------------|-------------------------|------|--------|-------|-------|-----------------------------|--------------------------------|
| SUBSYSTE MDAC ID: | | | EPD&C 6526 CIRCU | | BREAKI | ER, 3 | A (A | C 2C TO FW | D RCS VALVES) |
| LEAD ANA | LYSI | !: | K. SC | HME | KPEPI | ER | | | |
| ASSESSME | NT: | | | | | | | | |
| | | 'ICAL 'LIGH' | | F | REDUNE | ANCY | SCR | EENS | CIL ITEM |
| | HD | W/FUI | NC | A | | В | | С | |
| NASA IOA | [3 | /1R /2R |] | [F |)) | [F |] | [P] [P] | [X] * [] |
| COMPARE | [| /N |] | [|] | [N |] | [] | [и] |
| RECOMMEN | DATI | ONS: | (If | dif | feren | t fr | om N | ASA) | |
| | [| / |] | [|] | [|] | [] | [] (ADD/DELETE) |
| * CIL RE | TENT | ION F | RATION | ALE: | (If | app1: | icab: | le) ADEQUA' INADEQUA' | |
| | URS 1 | WITH | NASA' | S RE | EVALU. | ATIO | N AFT | TER FURTHE | R EXAMINATION O |

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| ASSESSMEI ASSESSMEI NASA FME | NT II |): | EPD&C- | 0&C-6527 BASELINE [] -6-2617-1 NEW [X] | | | | | | | | | | | | | | |
|------------------------------------|------------|---------------|------------------------|--|--------|-------|--------|------------|------|------|--------|--------------|-------|----------|---------|-----|------|---|
| SUBSYSTEM MDAC ID: | M: | | EPD&C 6527 CIRCU | IT 1 | BR | EAKER | , | 3 <i>A</i> | . (A | C 32 | A I | O FW | ID RO | cs | VA | 'TA | ES) | |
| LEAD ANA | LYST | : | K. SCI | HME | CK | PEPER | | | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | | |
| | | | ITY | 1 | RE | DUNDA | N | CY | SCR | EEN | S | | | CI Tr | L EM | ſ | | |
| | | LIGH' W/FU | _ | i | A | | | В | | | С | | | | | • | | |
| NASA IOA | [3 [3 | /1R /2R |] | [] | P P | 1 | [[| F P |] | [| P P |] | | [[| X |] | * | |
| COMPARE | [| /N | 1 | [| |]. | [| N |] | [| |] | | [| N |] | | |
| RECOMMEN | DATI | ons: | (If | di | fſ | erent | : | fr | om N | IASA |) | | | | | | | |
| | [| / |] | [| |]; | [| |] | . [| |] | (A | | /DI | | ETE) | |
| * CIL RE | TENT | ION | RATION | ALE | : | (If a | ap: | pl: | icab | | | DEQU DEQU | | | x | | | |
| REMARKS: IOA CONC THE CIRC | CURS | | NASA' | S R | ΕI | EVALU | Υ | 10 | N AF | TER | F | URTH | ER E | XA | MI | na: | TION | 0 |

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| ASSESSMENT ID: NASA FMEA #: | EPD&C-6528 | | NASA DATA BASELINI NEV | |
|---------------------------------|-----------------------------|--------------------|------------------------------|--------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6528 CIRCUIT BE | REAKER, 3A (AG | C 3B TO FWD F | RCS VALVES) |
| LEAD ANALYST: | K. SCHMECH | KPEPER | | |
| ASSESSMENT: | | | | |
| CRITICAL: FLIGHT | r | EDUNDANCY SCRI | | CIL ITEM |
| HDW/FUI | NC A | В | С | |
| NASA [3 /1R IOA [3 /2R |]. [P |] [F]] [P] | [P] [P] | [X] * |
| COMPARE [/N | J . [|] [N] | [] | [N] |
| RECOMMENDATIONS: | (If diff | ferent from NA | ASA) | |
| [/ |]: [|] [] | [] (A | [] .DD/DELETE) |
| * CIL RETENTION F | RATIONALE: | (If applicabl | ADEQUATE | |
| REMARKS: | | | INADEQUATE | [] |
| IOA CONCURS WITH THE CIRCUIT. | NASA'S REE | EVALUATION AFT | ER FURTHER E | XAMINATION OF |

| ASSESSME | ASA FMEA #: 05-6-2617-1 | | | | | | | | | | | BASELIN | | | ĸ |] | | | |
|-------------------------------|-------------------------|------|------------|------|------|-----|--------|-------|--------|------------|-------|---------|--------|--------------------|-----|-----------|-----|------------|---|
| SUBSYSTEM MDAC ID: | M: | | | 652 | 9 | T | BR | EAKE | R, | 3 <i>A</i> | (AC | 30 | נים | ro fwd | RC | s ' | VA: | LVES) | |
| LEAD ANALYST: K. SCHMECKPEPER | | | | | | | | | | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | | | |
| | CRI | TIC | | | | | RE | DUND | AN | CY | SCRE | EN | S | | | CI IT | | | |
| | H | IDW/ | | | | | A | | | В | | | С | | | | | | |
| NASA IOA | | 3 / | ′1R ′2R |] | |] | P P |] | [[| F P |] | [| P P |] | | [| X |] * | |
| COMPARE | [| / | /N |] | | [| |] | [| N |] | [| |] | | [| N | 3 | |
| RECOMMEN | 'DA' | 1017 | 1S: | | (If | đi | Ĺfſ | feren | t | fro | om NA | SA |) | | | | | | |
| | [| , | / |] | | [| |] | [| |] | [| |] | (AE | [D/D/ | DE |] LETE |) |
| * CIL RE | TEI | TIC | 'N | RAT: | IONZ | \LI | Ξ: | (If | ap | pl: | icabl | | | DEQUAT: DEQUAT: | | [| x |] | |

REMARKS:

IOA CONCURS WITH NASA'S REEVALUATION AFTER FURTHER EXAMINATION OF THE CIRCUIT.

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-653 | | | NASA DATA BASELINE NEW | |
|--|----------------------------|----------|------------|------------------------------|--------------------|
| MDAC ID: | EPD&C 6530 HYBRID DR | IVER TYP | E I TO | APCA-1 | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL FLIGH | | EDUNDANC | Y SCRE | ENS | CIL |
| HDW/FU | _ | | В | С | ITEM |
| NASA [3 /1R IOA [3 /1R |] [P |] [| P] F] | [P] [P] | [] * [x] |
| COMPARE [/ |] [|] [| и] | [] | [и] |
| RECOMMENDATIONS: | (If dif | ferent f | rom NA | SA) | |
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| * CIL RETENTION | RATIONALE: | (If app | licable | e) ADEQUATE INADEQUATE | |
| REMARKS: IOA CONCURS WITH READ "54V76A121HI | NASA'S SCI DCJ4(32)". | REEN "B" | . REF | ERENCE DESIG | NATOR SHOULD |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/13/87 EPD&C-6531 05-6-2494-2 | | ELINE [] NEW [X] |
|--|--------------------------------------|--|--------------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6531 HYBRID DRIVER | TYPE I TO APCA-1 | |
| LEAD ANALYST: | к. всниескрерн | ER | |
| ASSESSMENT: | | | |
| CRITICAL FLIGH | - | DANCY SCREENS | CIL I TEM |
| HDW/FU | | ВС | |
| NASA [3 /1R IOA [3 /3 | [P]] [] | [F] [P] | [X] * |
| COMPARE [/N |] [N] | [N] [N] | [N] |
| RECOMMENDATIONS: | (If differe | nt from NASA) | |
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| * CIL RETENTION | RATIONALE: (If | ADEQ | UATE [X] UATE [] |
| REMARKS: IOA CONCURS WITH REFERENCE DESIGN | I NASA'S REEVAL NATOR SHOULD RE | UATION AFTER FURT AD "54V76A121HDCJ | HER ANALYSIS. 4(32)". |

| | 6/13/87 EPD&C-6532 05-6-2494-1 | NASA DATA BASELINI NEV | |
|-----------------------------|--------------------------------------|------------------------------|------------------|
| | EPD&C 6532 HYBRID DRIVER | TYPE I TO APCA-1 | |
| LEAD ANALYST: | K. SCHMECKPEPE | ER | |
| ASSESSMENT: | | | |
| CRITICAL FLIGH | | DANCY SCREENS | CIL |
| HDW/FU | | В С | ITEM |
| NASA [3 /1R IOA [3 /1R |] [P]] [P] | [P] [P] [F] [P] | [] * [x] |
| COMPARE [/ |] [] | [N.] | [N] |
| RECOMMENDATIONS: | (If differen | nt from NASA) | |
| [/ |] [] | [] [] | [ADD/DELETE) |
| * CIL RETENTION I | RATIONALE: (If | applicable) | |
| REMARKS: | | ADEQUATE INADEQUATE | [] [] |
| | NASA'S SCREEN OCJ4(33)". | "B". REFERENCE DESIG | NATOR SHOULD |

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|-------------------------------------|------|----------|---------------|-----------|----------------------|-----------|------------|------------|-----|-----|-------------|------------|--------------|---------|-----------|---------------|-----------|---------|----------|---------|--------------|------|
| SUBSYSTEMDAC ID: | M: | | | 65 | D&C 33 BRID | C | RI | VEI | R T | ΥP | E | I | TO P | ΔP | CA | -1 | | | | | | |
| LEAD ANA | LYS | T: | | ĸ. | SCH | ME | CK | PE | PER | | | | | | | | | | | | | |
| ASSESSME | NT: | ; | | | | | | | | | | | | | | | | | | | | |
| | CR1 | | CAL | | | | RE | DU | NDA | NC | Y: | SC | REE | NS | | | | | CI | L EM | 1 | |
| | ŀ | | LIGH! /FUI | | | | A | | | | В | | | | С | | | | | | | |
| NASA IOA | [| 3 | /1R /3 |] | | [| P |] | | [| F |] | | [[| P |] | | |] | X |] | * |
| COMPARE | [| | /N |] | | [| N |] | | [| N |] | | [| N |] | | | [| N |] | |
| RECOMMEN | DA' | ric | ONS: | | (If | d: | if1 | fer | ent | : 1 | fro | om | NAS | A) | | | | ٠ | | | | |
| | [| | / |] | | [| |] | | [| |] | | [| |] | (| ΑI | [/ac | /DI | E L I | ETE) |
| * CIL RE | TE | NT: | ION | RAI | NOI | AL | E: | (I | f a | ıpı | 91 : | ica | | | | DEQU DEQU | | | [| x |] | |
| REMARKS: IOA CONC REFERENCE | אווי | S DE: | WITH SIGN | NA ATC | ASA'S | 5 HO | REI ULI | EVA D R | LUA | AT: | IOI "5 | N A 4V7 | AFTE 76A1 | R 2: | FU LHI | JRTH DCJ 4 | ER (33 | A1 | IA! | LY: | SI | s. |

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|----------------------------------|------|----------------|-------------------|-------------------------|--------|------|--------|--------|-----|--------|----------|-------------|------|----------|------------|--------|
| SUBSYSTE MDAC ID: | | | EPI 653 HYI | | DR: | IVEI | R TY | PΕ | I | | | | | | | |
| LEAD ANA | LYS | r: | K. | SCHM | EC | KPEI | PER | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | |
| | | FICAL FLIGH | | | RI | EDUN | IDANG | CY | sc | REEN | s | | | | L | |
| | HI | OW/FU | NC | | A | | | В | | | С | | | | | |
| NASA IOA | [3 | 3 /1R 3 /1R |] |] | P P |] | [[| P F |] |] [| P P |] | | [| x] | * |
| COMPARE | [| / |] | [| | 3 | [| N |] | [| |] | | [| N] | |
| RECOMMEN | DAT | cons: | (| If d | iff | ere | nt f | ro | om | NASA |) | | | | | |
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| * CIL RE | TENI | ION : | RATI | ONAL | E: | (If | app |)li | ica | Ť | | DEQUA | | [|] | |
| REMARKS: IOA CONC | URS | WITH | NAS | A'S S | SCR | EEN | "B" | • | R | EFER: | ENC | CE DI | ESIG | TAV | OR . | SHOULD |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/13/87 EPD&C-6535 05-6-2494-2 | | 1 | NASA DATA: BASELINE NEW | |
|--|--------------------------------------|--------------------------|---------------------|-------------------------------|-------------------|
| | EPD&C 6535 HYBRID DRI | VER TYPE | I | | |
| LEAD ANALYST: | K. SCHMECK | PEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL FLIGH | | DUNDANCY | SCREENS | | CIL ITEM |
| HDW/FU | | В | | С | |
| NASA [3 /1R IOA [3 /3 | [P |] [F |] [| P] | [X] * |
| COMPARE [/N | j - [n |] [N |] [| N] | [N] |
| RECOMMENDATIONS: | (If diff | erent fro | om NASA) | | |
| [/ |] [|] [|] [|] (A) | [] DD/DELETE) |
| * CIL RETENTION | RATIONALE: | (If appl: | | ADEQUATE ADEQUATE | [X] |
| REMARKS: IOA CONCURS WITH REFERENCE DESIGN | I NASA'S REE IATOR SHOULD | EVALUATION D READ "5! | N AFTER 5V76A122 | FURTHER A 2HDCJ4(32) | NALYSIS. ". |

| ASSESSME ASSESSME NASA FME | ENT 1 | D: | 6/13/ EPD&C 05-6- | -65 | | | | | DATA: ELINE [NEW [X |] |
|----------------------------------|-------------|-----------------|-------------------------|------|------------|--------|-----|--------------------------|-----------------------------|-----------------|
| SUBSYSTE MDAC ID: | | | EPD&C 6536 HYBRI | | RIVEF | TYPE | I | | | |
| LEAD ANA | LYSI | : | K. sc | HME | CKPEF | PER | | | | |
| ASSESSME | ENT: | | | | | | | | | |
| | | 'ICAL 'LIGH' | ITY T | I | REDUN | IDANCY | so | CREENS | CIL ITEM | |
| | HE | W/FU | NC | 7 | A | В | | С | | |
| NASA IOA | [3 | /1R /1R |] | [I | ?] ?] | [P |] | [P] [P] | [x |] *] |
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| REMARKS: IOA CONC READ "55 | URS V76A | WITH | NASA': | S SC | REEN | "B". | R | EFERENCE D | ESIGNATOR - | SHOULD |

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|---------------------------------------|------------|--------------|----------------------|------------|----------|------------|------|-----------|--------------|------------|-----------|---------------------------|-----------|-----|------|-----|------|
| SUBSYSTEM: MDAC ID: ITEM: | : | | EPD& 6537 HYBR | | RI | VEI | R TY | PE | I | | | | | | | | |
| LEAD ANALY | YST: | | K. S | CHMI | ECF | (PEI | PER | | | • | | | | | | | |
| ASSESSMEN' | r: | | | | | | | | | | | | | | | | |
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| REMARKS: IOA CONCU REFERENCE | RS V | VITH SIGN | NAS ATOR | A'S SHO | RE UL | EVA D R | LUAT | 'IO 5" | N AI 5V76 | TER | FU 2HE | RTHER CJ4(33 | AN " (| `A1 | _YX: | 3I: | s. |

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| SUBSYSTI MDAC ID: ITEM: | | | | 65 | PD&C 538 (BRI | | DR | IVE | ER 1 | 'Y | PE | II | то | A | PCA- | ·1 & | AP | C2 | 4 -: | 3 | |
| LEAD ANA | LY | ST | : | ĸ. | SC | HM. | EC | KPE | PER | ₹ . | • | | | | | | | | | | |
| ASSESSME | ENT | : | | | | | | | | | | | | | | | | | | | |
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| * CIL RE REMARKS: IOA CONC | | | | | | | | | | | | .ca | · | 1 | ADEQ ADEQ | | • | [| |] | |
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| SUBSYSTEM MDAC ID: | M: | | | 65 | D&C 39 BRID |) [| DRI | VEF | R T | Ϋ́F | Έ | II | то | A | ·PC | : A- 1 | L & <i>1</i> | APCA | -3 | | |
| LEAD ANA | LYS | T: | 3 | ĸ. | SCH | IMI | ECF | (PEI | PER | | | | | | | | | | | | |
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| NASA IOA | [| 3 | /1R /3 |] | | [| P |] | |] | P |] | | [| P |] | | [|] | * | |
| COMPARE | [| | /N |] | | [| N |] | | [| N |] | | [| N |] | | [|] | | |
| RECOMMEN | DA: | ric | ons: | | (If | đ | if: | fer | ent | : 1 | Ero | om | NAS | A) |) | | | | | | |
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| * CIL RE | TE | NT: | ION | RA! | rion | ΑL | E: | (I | f a | ıpj | pl: | ica | able | | | | UATE UATE | |)] | | |
| REMARKS: | | | | | | | | | | | | | | | | | | - - | | _ | |

IOA CONCURS WITH NASA' REEVALUATION AFTER FURTHER ANALYSIS.

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| SUBSYST MDAC ID ITEM: | | | | 65 | | | DR | IVE: | R I | 'Y' | PΕ | II | то | ΑP | CA- | 1 & 2 | APC. | A- : | 3 | |
| LEAD AN | ALYS | ST | : | ĸ. | SCI | HM | EC: | KPE: | PER | 1 | | | | | | | | | | |
| ASSESSM | ENT: | : | | | | | | | | | | | | | | | | | | |
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| RECOMME | radv | CIC | ons: | (| (If | d: | if | fere | ent | : 1 | fro | om 1 | NASA |) | | | | | | |
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| * CIL RI REMARKS: IOA CONG | } | | | | | | | | | | | cak | • | | | UATE UATE | [| |] | |
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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/13/87 EPD&C-654 05-6-2495 | | | NASA DATA BASELINE NEW | [] |
|--|-----------------------------------|------------|--------------|-------------------------------|--------------------|
| | EPD&C 6541 HYBRID DE | RIVER T | YPE II T | O APCA-1 & A | PCA-3 |
| LEAD ANALYST: | K. SCHME | CKPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL FLIGH | | REDUNDA | NCY SCRE | | CIL ITEM |
| HDW/FU | NC I | A | В | С | |
| NASA [3 /1R IOA [3 /3 |] [] | P] | [P] [] | [P] [] | [] * |
| COMPARE [/N |] [] | N] | [и] | [и] | []. |
| RECOMMENDATIONS: | (If di | fferent | from NA | SA) | |
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| * CIL RETENTION | RATIONALE | : (If a | pplicabl | .e) ADEQUATE INADEQUATE | |
| REMARKS: IOA CONCURS WITH | NASA' RE | EVALUAT | ION AFTE | ER FURTHER AN | IALYSIS. |

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| SUBSYSTIMDAC ID | | | | 6 | PD&C 542 YBRI | D 1 | DR: | IVER | R T | (P | E | II | TO |)] | ΑP | CA- | 2 & | A | PC. | A - | 3 | |
| LEAD AN | ALY | ST | : | K | . sci | HM. | EC | KPEF | PER | | | | | | | | | | | | | |
| ASSESSMI | ENT | : | | | | | | | | | | | | | | | | | | | | |
| | | F | LIGH | T | Y | | RI | EDUN | IDAI | IC | Y | SC | REE | NS | 3 | | | | | IL TEI | | |
| | 1 | HD | W/FU | NC | | | A | | | | В | | | | С | | | | | | | |
| NASA IOA | [[| 3 3 | /1R /1R |] | | [| P P |] | | | na F |] | |] | P P |] | | |] | x |] | * |
| COMPARE | [| | / |] | | [| |] | (| | N |] | | [| |] | | | [| N |] | |
| RECOMMEN | NDAT | rio | SNC: | | (If | d: | if1 | fere | nt | f | ro | m l | NAS | A) | ı | | | | | | | |
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| * CIL RE | ETEN | T: | ION | RAI | NOI | LI | Ξ: | (If | aŗ | p. | li | cal | ble |) | ΑI | DEQ | UAT: | E | ſ | | 1 | |
| REMARKS: | | 5 V | WITH | NA | \SA'S | 5 5 | SCF | REEN | · "E | , se . | • | | | IN | | | UAT: | | į | | j | |

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| ASSESSMENT ASSESSMENT NASA FMEA |)&C- | /87 NASA DATA: C-6543 BASELINE [] -2495-2 NEW [X] | | | | | | | | | | | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | | | EPI 654 HYI | 13 | D | RI | VER | TYI | PΕ | II T | 0 2 | APC | :A-2 | & AI | PCA-3 | 3 | |
| LEAD ANALY | ST: | | ĸ. | SCH | ME | CK | PEPE | R | | | | | | | | | |
| ASSESSMENT | !: | | | | | | | | | | | | | | | | |
| CF | | CAL | | | | RE | DUNE |)AN | CY | SCRE | EN | 3 | | | CIL | M | |
| | | IGH' /FU | | | | A | | | В | в С | | | | | | | |
| NASA IOA | [3 [3 | /1R /3 |] | |] | P |] | [| P |] | [| P |] | | [|] * | ŧ |
| COMPARE | [| /N |) | | [| N | 3 | [| N |] | [| N |] | | [|] | |
| RECOMMENDA | ATIC | ons: | | (If | d: | if | ferei | nt | fr | om NA | SA |) | | | | | |
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| * CIL RET | ENT: | ION | RAT | 'ION | AL | E: | (If | ap | pl | icabl | | A | DEQUA DEQUA | | [|] | |
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|----------------------------------|--------------------|---------------------------------|------------|----------------|---|---------------------|--|--|--|--|--|--|
| SUBSYSTI MDAC ID: ITEM: | | EPD&C 6544 HYBRID 1 | DRIVER | TYPE II | TO APCA-2 | & APCA-3 | | | | | | |
| LEAD AND | ALYST: | K. SCHMI | ECKPEP | ER | | | | | | | | |
| ASSESSMI | ENT: | | | | | | | | | | | |
| | CRITICAL FLIGH | r | | DANCY SCI | REENS | CIL ITEM | | | | | | |
| | HDW/FU | NC | A | В | С | | | | | | | |
| NASA IOA | [3 /1R [3 /1R |] [| P] P] | [NA] [F] | [P] [P] | [] * [x] | | | | | | |
| COMPARE | [/ |] [|) | [N] | [] | [и] | | | | | | |
| RECOMMEN | DATIONS: | (If di | ffere | nt from N | (ASA) | | | | | | | |
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| * CIL RE | TENTION F | RATIONALE | : (If | applicab | le) ADEQUA' INADEQUA' | | | | | | | |
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| ASSESSME ASSESSME NASA FME | NT I | ID: | 6/13/8 EPD&C- 05-6-2 | 6545 | | NASA DATA: BASELINE [] NEW [X] | | | | | | | | |
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| SUBSYSTE MDAC ID: | | | EPD&C 6545 HYBRID | DRI | VER | TYPE | II TC |) AP | CA-2 & | ΑP | CA- 3 | | | |
| LEAD ANA | LYS | r: | K. SCH | MECK | PEPE | R | | | | | | | | |
| ASSESSME | ENT: | | | | | | | | | | | | | |
| |] | TICALI FLIGHT DW/FUI | r | RE A | DUND | ANCY B | SCREE | ens C | | | CIL ITEM | I | | |
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| | EPD&C 6546 HYBRID DRIV | ER TYPE V TO | HYBRID DRIV | VER TYPE II | | | | | | | | | |
| LEAD ANALYST: | K. SCHMECKP | PEPER | | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM | | | | | | | | | | | | | |
| HDW/FU | NC A | В | С | | | | | | | | | | |
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| RECOMMENDATIONS: | (If diffe | rent from NAS | SA) | | | | | | | | | | |
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| * CIL RETENTION | RATIONALE: (| If applicable | e) ADEQUATE INADEQUATE | | | | | | | | | | |
| REFERENCE DESIGNATION | ATOR SHOULD | READ "56V76A1 | .23HDCJ8(27) | н. | | | | | | | | | |

| | 6/13/87 EPD&C-654 05-6-2496 | | | NASA DATA BASELIN NE | |
|--|-----------------------------------|---------------------|-----------|------------------------------|---------------------|
| D020101 | EPD&C 6547 HYBRID DR | IVER TY | PE V TO | HYBRID DRI | VER TYPE II |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | • | |
| ASSESSMENT: | | | | | |
| | ITY R | EDUNDAN | ICY SCREE | INS | CIL ITEM |
| FLIGH HDW/FU | | • | В | С | |
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| REMARKS: IOA CONCURS WITH REFERENCE DESIGN | NASA'S RI | EEVALUA' LD READ | TION AFT | ER FURTHER 123HDCJ8(27 | ANALYSIS. |

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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6548 HYBRID DRI | IVER TYPE V | 7 TO HYBRID D | RIVER TYPE II | | | | | | | | | |
| LEAD ANALYST: | K. SCHMECK | KPEPER | | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C | | | | | | | | | | | | | |
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| ASSESSME | SSESSMENT DATE: 6/13/87 SSESSMENT ID: EPD&C-6549 ASA FMEA #: 05-6-2496-2 | | | | | | | | | | | | LINE NEW | [| | | |
|----------------------------------|--|---------------------|-------------------------|------------|----------|--------------|-----------|------------|------------|----------------|------------|--------------|--------------|-----|-----------|-----|-----|
| SUBSYSTEMDAC ID: | | | EPD&C 6549 HYBRID | DI | RI' | VER | тY | PE | v | то н | YB | RID | DRIV | ER | ТУ | PE! | ΙΙ |
| LEAD ANA | LYST: | | K. SCH | ME | CK | PEPE | R | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | |
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| | HDW, | /FUN | C | 7 | A | | | В | | | С | | | | | | |
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| ASSESSMENT DAY ASSESSMENT ID NASA FMEA #: | , _ , | -6 550 | | NASA DATA: BASELINE [] NEW [X] | | | | | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6550 HYBRII | D DRIVER | TYPE V T | O HYBRID DR | IVER TYPE II | | | | | | | | |
| LEAD ANALYST: | K. SCH | IMECKPEPE: | R | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM | | | | | | | | | | | | | |
| HDW, | /FUNC | A | В | С | | | | | | | | | |
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| REFERENCE DESI | GNATOR SH | D "56V762 | A123HDCJ9(5 | 4)". | | | | | | | | | |

| 110020011211 1 | 6/13/87 EPD&C-6551 05-6-2496- | | | NASA DATA: BASELINE NEW | | |
|--|-------------------------------------|-------------------------|--------------------|-------------------------------|-------------|------------|
| MDAC ID: | EPD&C 6551 HYBRID DRI | VER TYPE | v то ну | BRID DRIVE | ER TYI | PE II |
| LEAD ANALYST: | K. SCHMECK | (PEPER | | | | |
| ASSESSMENT: | | | | | | |
| CRITICAL FLIGH | | EDUNDANCY | SCREENS | 3 | CIL ITEM | |
| HDW/FU | | В | | С | | |
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| * CIL RETENTION | RATIONALE: | (If appl: | | ADEQUATE NADEQUATE | [|] |
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| SUBSYSTE MDAC ID: ITEM: | M: | | EPD&0 6552 HYBR] | | RIVEF | R TYPE | v 1 | O HYBRI | D DRIVER TYPE II | | | | | |
| LEAD ANA | LYS' | T: | K. SC | HME | KPE | PER | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | |
| ı | | TICAL FLIGH | | CIL ITEM | | | | | | | | | | |
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| LEAD ANA | LYS | T: | | ĸ. | SCH | ME | CK | PE | PEF | ? | | | | | | | | | | | | |
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| | EPD&C 6556 RESISTOR, 5.1K | TO APCA- | 2 | |
| LEAD ANALYST: | K. SCHMECKPEPE | R | | |
| ASSESSMENT: | | | | |
| CRITICALI FLIGHT | | ANCY SCRE | ENS | CIL |
| HDW/FUN | | В | С | ITEM |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6558 RESISTOR, 7.5K | TO DC RETUR | en | |
| LEAD ANALYST: | K. SCHMECKPEPE | R | | |
| ASSESSMENT: | | | | |
| CRITICAL: FLIGHT | | ANCY SCREENS | ; | CIL ITEM |
| HDW/FU | | В | С | IIEM |
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| SUBSYSTEM MDAC ID: | | EPD& 6559 RESI | | 7.5K | то | DC R | ETURN | |
| LEAD ANAI | LYST: | K. s | CHMEC | KPEPEI | R | | | |
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| REMARKS: | CE | DE | SIGN | ATC | OR S | но | UL | D RE | EAD | "5 | 6V7 (| 5A12 | 3R | J9(25) |) ¹¹ • | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/13/87 EPD&C-6560 05-6-2330-1 | | NASA DATA BASELINE NEW | |
|--|--------------------------------------|---------------------------|------------------------------|-------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6560 RESISTOR, 7.5K | TO DC RETU | IRN | |
| LEAD ANALYST: | K. SCHMECKPEPER | ર | | |
| ASSESSMENT: | | | | |
| CRITICALI FLIGHT | TY REDUNDA | NCY SCREEN | S | CIL |
| HDW/FUN | | В | С | ITEM |
| NASA [3 /1R IOA [3 /3 |] [P]] [] | [F] [| P] | [X] * |
| COMPARE [/N |] [N] | [и] | N] | [N] |
| RECOMMENDATIONS: | (If different | from NASA |) | |
| [/ |] [] | [] | | [] DD/DELETE) |
| * CIL RETENTION R | ATIONALE: (If a | pplicable) | | |
| DEMARKS. | | I | ADEQUATE NADEQUATE | [X] [] |
| REMARKS: IOA CONCURS WITH THE CIRCUIT. REF "56V76A123RJ9(54) | ERENCE DESIGNAT | TION AFTER OR SHOULD 1 | FURTHER EX READ | AMINATION OF |

| ASSESSME ASSESSME NASA FME | NT | II |): | 7/02/ EPD&C 05-6- | -65 | | | | | | , | | ELINE NEW | [| | |
|----------------------------------|-----|-----|----------------|-------------------------|-----|--------|------|-------|-----|--------|------|------------|--------------|----------|---------|--------|
| SUBSYSTE MDAC ID: | | | | EPD&C 6560 RESIS | | а, | 7.5 | к то | DC | C RE | TUR | N | | | | |
| LEAD ANA | LYS | ST: | : | K. SC | HMI | ECI | KPEP | ER | | | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | | | | |
| | CR] | | ICAL: | | | RI | EDUN | DANC! | Y S | CRI | EENS | | | CI | L EM | |
| | I | | LIGHT W/FUI | | | A | | 1 | В | | | С | | | | • |
| NASA IOA | [| 3 | /1R /1R |] |] | P P |] | [] | P : |]] | [| P] P] | | [[|]] | * |
| COMPARE | [| | / |] | ĺ | |] | [| |] | [| 3 | | [| 3 | |
| RECOMMEN | DA! | ri. | ons: | (I | f d | if | fere | nt f | ro | m Ni | ASA) | | | | | |
| | [| | / |] | [| | 1 | [| |] | [|] | (A |] /QQ | DEI | LETE) |
| * CIL RE | TE | NT | ION : | RATIO | NAL | E: | (If | app | li. | cab: | | - | UATE UATE | _ |] | [] |
| REMARKS: | Œ | DE | SIGN | ATOR : | зно | UL | D RE | AD " | 56 | V76. | A123 | RJ9 (| 54)". | | | |

| ASSESSMENT D ASSESSMENT I NASA FMEA #: | D: EPD | &C-6561 | | | TA: NE [] EW [X] |
|--|-------------------|----------------------------|-------------------------|--------------------------------------|---------------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD 656 RES | | K TO DC R | ETURN | |
| LEAD ANALYST | : к. | SCHMECKPEPI | ER | | |
| ASSESSMENT: | | | | | |
| | ICALITY LIGHT | REDUNI | DANCY SCR | EENS | CIL ITEM |
| | W/FUNC | A | В | С | TIEM |
| NASA [3 IOA [3 | /1R] /3] | [P] [] | [F] [] | [P] [] | [X] * [] |
| COMPARE [| /N] | [N] | [N] | [N] | [N] |
| RECOMMENDATIO | ons: (| If differer | nt from NA | ASA) | |
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| * CIL RETENT | ION RATI | ONALE: (If | applicabl | ADEQUAT | |
| REMARKS: IOA CONCURS THE CIRCUIT. "56V76A123RJ | REFERE | A'S REEVALU NCE DESIGNA | JATION AFT ATOR SHOU | INADEQUATI TER FURTHER LD READ | E [] EXAMINATION OF |

| | STEM: EPD&C | | | | | | | | | | | | I | | A DA SELI N | | [| |] | |
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| SUBSYSTEM MDAC ID: | M: | | | 65 | 61 | 'OF | ۲, | 7.5H | (T | 0 1 | oc i | RETU | JRI | 4 | | | | | | |
| LEAD ANA | LYS | T: | | ĸ. | SCH | IMI | ECF | KPEPE | ER | | | | | | | | | | | |
| ASSESSME | NT: | ; | | | | | | | | | | | | | | | | | | |
| | CRI | | [CAL] | | , | | RI | EDUNI | OAN | CY | SCI | REE | IS | | | | CI II | IL PEN | 1 | |
| | FLIGHT HDW/FUNC | | | | | | | | | В | | | (| С | | | | | | |
| NASA IOA | [| 3 | /1R /1R |] | | [| P P |] |] [| P P |] | | [| P] | | | [| |] | * |
| COMPARE | [| | / |] | | ĺ | | 3 | [| |] | | [|] | | | [| |] | |
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| | (| | / |] | | [| |] | [| |] | | [| |) | (A |] DD, | /D | ELI | ETE ; |
| * CIL RE | TE | NT: | ION 1 | RAI | NOI | AL | E: | (If | aŗ | pl | ica | | | | EQUAT | | [| |] | |
| REMARKS: | | | | | | | | | | | | | | | | | | | | |

REFERENCE DESIGNATOR SHOULD READ "56V76A123RJ9(57)".

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| SUBSYSTE MDAC ID: | | | | 65 | PD&C 562 ESIS' | TO I | R, | 15K | T |) <i>I</i> | LC | :A-3 | | | | | | | | |
| LEAD ANA | LY: | ST | : | K | . sc | HM | EC | KPEP | ER | | | | | | | | | | | |
| ASSESSME | NT | : | | | | | | | | | | | | | | | | | | |
| | | F | ICAL: LIGH: N/FUI | Г | | | RI A | EDUN | DAI | ICY E | | CREE | ENS | s C | | | | IL PEM | Í | |
| NASA IOA | [| 3 | /1R /1R |] | |] | P P |] | | F | ·] | | [| P P |] | | [| x |] | * |
| COMPARE | [| | / |] | | [| |] | (| N |] | | [| |] | | [| N |] | |
| RECOMMEN | DA? | ric | ONS: | | (If | d: | if | fere | nt | fr | om | NAS | A) | | | | | | | |
| | [| | / |] | | [| |] | (| |] | | [| |] | (AE | | 'DE | | TE) |
| * CIL RE | TE | VT] | ON E | RAI | NOI? | ALI | €: | (If | aŗ | pl | ic | | | | EQUAT | | [| |] | |
| | | | | | | | | | | | | | | | | | | | | |

IOA CONCURS WITH NASA'S SCREEN "B".

| ASSESSME ASSESSME NASA FME | NT | ID | | EPI |) & C - | 65 | 62 9- | A 2 | | | | | | , | | SA ASE | LIN | E | [| |] | |
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| SUBSYSTE MDAC ID: | M: | | | EPI 650 RES | | OR | , | 15K | TC |) 1 | ΑL | CA | -3 | | | | | | 4 | • | | |
| LEAD ANA | LYS | ST: | : | ĸ. | SCH | ME | CF | (PEP | ER | | | | | | | | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | | | | | | | | | | |
| | | FI | [CAL] LIGHT | r | | | | DUN | DA1 | | Y B | SC | REE: | NS | C | | | | CI | L EM | ſ | |
| NASA IOA | [| 3 | /1R /1R |] | | [[| P P |] | | [| F F |] | |] | P P |] | | | [| X X |] | * |
| COMPARE | [| | / |] | | [| | 1 | | [| |] | | [| |] | | | [| |] | |
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| | [| | / |] | | [| |] | | [| |] | | [| |] | | (A l | [/Dc | /DI |] ELJ | ETE) |
| * CIL RI | ETE: | NT: | ION : | RAT | 'ION? | LI | €: | (If | f a | pp | 1: | ica | ble | | | DEQU DEQU | | | | x |] | |

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|---|---------------------------|-------------|------------|-----------------------------|---------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6563 RESISTOR | , 15K TO | ALCA- | 3 | |
| LEAD ANALYST: | K. SCHME | CKPEPER | | | |
| ASSESSMENT: | | | | | |
| | HT . | REDUNDAN | CY SCR | EENS | CIL ITEM |
| HDW/F | UNC A | A | В | С | |
| NASA [3 /1 IOA [3 /1 | R] [I R] [I |) [}] [| P] F] | [P] [P] | [] * [x] |
| COMPARE [/ |] [|] [| N] | [] | [N] |
| RECOMMENDATIONS | : (If dif | ferent : | from NA | ASA) | |
| [/ |] [|] [|] | [] | [] (ADD/DELETE) |
| * CIL RETENTION REMARKS: | | | | le) ADEQUAT INADEQUAT | |
| IOA CONCURS WIT | H NASA'S SC | REEN "B' | ٠. | | |

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| SUBSYSTE MDAC ID: | M: | | EPI 656 RES | 3 | OR | , | 15K | TC |) A l | LCA | -3 | | | | | | | | | |
| LEAD ANA | LYSI | r: | K. | SCH | ME | CF | PEPE | ER | | | | | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | | | | | | | |
| | 1 | rical: FLIGHT | r | | | | EDUNI | DAN | ICY B | sc | REE | NS | c | | | | CI | L PEN | | |
| NASA | | • | | | ſ | P | 1 | [| F |] . | | [| P |] | | | [| X |] | * |
| NASA IOA | ; ; | 3 /1R | j | | Ī | P | j | [| F |] | | [| P |] | | | [| X |] | |
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| RECOMMEN | DAT: | ions: | | (If | di | f | fere | nt | fr | om | NAS | A) |) | | | | | | | |
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| * CIL RE | TEN | TION | RAT: | ION <i>A</i> | LE | : 2 | (If | aj | ppl | ica | able | | | | TAU TAU | | | x |] | |
| REMARKS: | | | | | | | | | | | | | | | | | | | | |

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| SUBSYSTE MDAC ID: | | | | 65 | PD&C 564 ESIS | | R, | 15 | 5K | то | A | LCA | 1 –3 | | | | | | | | | |
| LEAD ANA | LY | ST | : | ĸ. | SC | HM | EC: | KPI | EPE | R | | | | | | | | | | | | |
| ASSESSME | ENT | : | | | | | | | | | | | | | | | | | | | | |
| TI TAVA | | | | | | | | | | | | | IL FEN | 1 | | | | | | | | |
| | 1 | HD | W/FU | NC | | | A | | | | В | | | | С | | | | | | | |
| NASA IOA | • | 3 3 | /1R /1R |] | | [[| P P |] | | [| P F |] | | [| P P |] | | | [| x |] | * |
| COMPARE | [| | / |] | | [| |] | | [| N |] | | [| |] | | | [| N |] | |
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| * CIL RE REMARKS: IOA CONC | | | | | | | | | | | | ca | - | | | | UAT UAT | | [| |] | |
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| | 7/02/87 EPD&C-6564A 05-6-2329-2 | NASA DATA: BASELINE NEW | [x] |
|--------------------------------|---------------------------------------|---------------------------------|-----------------|
| | EPD&C 6564 RESISTOR, 15K T | O ALCA-3 | |
| LEAD ANALYST: | K. SCHMECKPEPER | | |
| ASSESSMENT: | | | |
| CRITICAL: FLIGHT HDW/FUI | r | NCY SCREENS B C | CIL ITEM |
| • |] [P] | [F] [P] [F] [P] | [X] * |
| COMPARE [/ |] [] | [] [] | [] |
| RECOMMENDATIONS: | (If different | : from NASA) | |
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| * CIL RETENTION | RATIONALE: (If a | applicable) ADEQUATE INADEQUATE | [X] |

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| SUBSYSTI MDAC ID: ITEM: | | • | EPD&0 6565 RESIS | | ₹, | 15K | то | A : | LCA- | .3 | | | | | | |
| LEAD ANA | LYSI | r: | K. so | HME | ECI | KPEP: | ER | | | | | | | | | |
| ASSESSME | ENT: | | | | | | | | | | | | | | | |
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| RECOMMEN | DATI | ons: | (If | di | ff | ere | nt : | fro | om N | ASA) |) | | | | | |
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| * CIL RE | | | | | | | | | icab | • | ADEQUA NADEQUA | | [| |] | |
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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 7/02/87 EPD&C-656 05-6-2329 | 5A -2 | | NASA DATA: BASELINE NEW | [x] |
|--|-----------------------------------|------------|----------------|-------------------------------|--------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6565 RESISTOR, | 15K T | O ALCA-3 | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL | | REDUNDA | NCY SCREE | Ins | CIL ITEM |
| FLIGH HDW/FU | - | A | В | С | |
| NASA [3 /1R IOA [3 /1R |] [] | P] P] | [F] [F] | [P] [P] | [X] * |
| COMPARE [/ |] [|] | [] | [] | [] |
| RECOMMENDATIONS: | (If di | fferent | from NAS | SA) | |
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| * CIL RETENTION | RATIONALE | : (If a | applicable | e) ADEQUATE INADEQUATE | [X] |

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| SUBSYST: MDAC ID ITEM: | | | | EPD&C 6566 RESIS | | , 2.2 | 2 K | | | | | |
| LEAD AND | ALY | ST | : | K. SC | HME | CKPEI | PER | | | | | |
| ASSESSMI | ENT | : | | | | | | | | | | |
| | CR | | ICAL LIGH | | F | REDUN | IDANC | r sci | REENS | | CII | |
| | | HD | W/FU | NC | A | L | F | 3 | c | : | ITE | SM |
| NASA IOA | [| 3 | /3 |] | [|] | [[|] | [|] | [|] * |
| COMPARE | [| N | /N |] | [|] | [|] | [| 1 | [|] |
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| * CIL RE | TEI | T | ON F | RATIONA | LE: | (If | appl | icab | le) | | | |
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| MDAC ID: | EPD&C 6567 RESISTOR, | 2.2K | | | | | | |
| LEAD ANALYST: | K. SCHMEC | KPEPEF | ₹ | | | | | |
| ASSESSMENT: | | | | | | | | |
| CRITICAL: FLIGH | | EDUNDA | ANCY | SCREE | ens | | CIL | [|
| HDW/FU | | | В | | С | | | |
| NASA [/ IOA [3 /3 |] [|] | [|] | [|] | [|] * |
| COMPARE [N /N |] [|] | [|] | [|] | |] |
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| SUBSYSTE MDAC ID: | | | EPD8 6568 RES1 | | , 1.8 | 3K | | | | | | | |
| LEAD ANA | LYST | Γ: | к. s | CHME | CKPEI | PER | | | | | | | |
| ASSESSME | ENT: | | | | | | | | | | | | |
| | I | LIGH | | 1 | REDUN | IDANC: | Y SCF | REENS | | | CIL | | |
| | HI | W/FU | INC | 2 | A | | В | • | С | | | •• | |
| NASA IOA | [3 | / /3 |] | [|] |] |] | [|] | | [|] *] | |
| COMPARE | [N | /N |] | [|] | [|] | [|] . | | [|] | |
| RECOMMEN | DATI | ons: | (I | f dif | fere | nt fr | om N | (ASA) | | | | | |
| | [| / |] | [|] | [|) | [|] | | [D/DI |] ELETE | () |
| * CIL RE | TENT | ION | RATIO | NALE: | (If | appl | icab | le) | | | | | |
| REMARKS: | | | | | | | | INA | ADEQUA' | ΓE | [[|] | |
| IOA AND D | NASA NTS. | WER | E UNA | BLE T BABLE | O RE | VIEW T THI | THIS | FMEA EA IS | DUE ' | TO T | IME ELSE | WHER | E. |

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| SUBSYS MDAC I ITEM: | | : | | | EPD&6 6569 RESIS | STOR, | 1.8 | ĸ | | | | | | |
| LEAD A | NAL | YS | T: | | K. S | CHMEC | KPEP | ER | | | | | | |
| ASSESS | MEN | T: | | | | | | | | | | | | |
| | C | RI | | | ITY | R | EDUN | DANCY | SCR | REENS | | CII | | |
| | | H | | IGH' /FU | | A | | В | | Ċ | | *** | ,4.2 | |
| NAS IC | A | [| 3 | /3 |] | [|] | [|] | [|] | [|] | * |
| COMPAR | E | [| N | /N |] | [|] | [|] | . [|] | [|] | |
| RECOMM | ENI | ľA(| ΓΙC | ons: | (I | f dif | fere | nt fr | om N | NASA) | | | | |
| | | [| | / |] | [|] | [|] | [|] | [(ADD/I |) ELE | TE) |
| * CIL | | E | VT: | EON : | RATIO | NALE: | (If | appl | icak | A. | DEQUATI DEQUATI | _ |] | |
| IOA AN | ID 1 | IAS | SA | WER | E UNA | BLE T | O RE | VIEW | THIS | S FMEA MEA IS | DUE TO | TIMI | E SEWH | ERE. |

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| SUBSYSTEMDAC ID | | | EPD&C 6570 RESIS | | 1.81 | K | | | | | _ |
| LEAD AND | ALYS | T: | K. SC | HMEC | KPEPI | ER | | | | | ~ |
| ASSESSMI | ENT: | | | | | | | | | | |
| | | TICAL FLIGH | | R | EDUNI | DANCY | SCR | EENS | | CIL | = |
| | | DW/FU | _ | A | | Ė | 3 | C | : | ITE | M |
| NASA IOA | [| 3 /3 |] | [|] | [|] | [|] | [|] * |
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| * CIL RE | ETEN' | TION 1 | RATION | ALE: | (If | appl | .icab | - | | | |
| DEMA DVG | | | | | | | | | DEQUATE DEQUATE | [[|] |
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| LEAD ANA | LYS | T: | : | K. SCH | IMECE | (PEPEF | ł | | | | | |
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| LEAD ANALYST: | K. SCHME | CKPEF | ER | | | | | |
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| LEAD ANA | LYS | r: | K. s | CHME | CKPEP | ER | | | | | | | |
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| SUBSYSTE MDAC ID: | ITEM: RESISTOR LEAD ANALYST: K. SCHME | | | | | | | | | | | | |
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| LEAD ANAI | YST: | K. SCHM | ECKPEPE | ER | | | |
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| SUBSYSTE MDAC ID: ITEM: | | | EPD&C 6581 RPC, 2 | 20A T | O RE | LAY | | | | | | | |
| LEAD ANA | ALYS | T: | K. SCF | IMECK | PEPE | ER | | | | | | | |
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| SUBSYSTE MDAC ID: | | | | 6 | PD&C 582 PC, | | A ' | го | APC | A- | -1 | | | | | | | | | |
| LEAD ANA | NALYST: K. SCHMECK | | | | | | | KPE | PER | | | | | | | | | | | |
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| | H | | /FU | | A | | В | | С | | | | | |
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| LEAD ANALYST: | K. SCHMECKPEPER | | | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | | |
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| SUBSYSTEM MDAC ID: | | | | EPD& 6587 RPC, | | O O | RB BUS | С | | | | | |
| LEAD ANAI | YS | T: | | K. S | CHMECK | PEP | ER | | | | | | |
| ASSESSMEN | T: | | | | | | | | | | | | |
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| MDAC ID: | EPD&C 6588 RPC, 20A TO | ORB BUS C | | |
| LEAD ANALYST: | K. SCHMECKPI | EPER | | |
| ASSESSMENT: | | | | |
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| * CIL RETENTION RA | ATIONALE: (I | f applicable) | | • |
| REMARKS: | | I | ADEQUATE NADEQUATE | [] |
| AFTER THE REDESIGN THAT THIS FAILURE RECEIVED AN UPDATE | I OF THE SRB HAS BEEN ANI D SCHEMATIC | POWER CIRCUI D IS DETECTAB TO VERIFY TH | rs, ioa was Le. Howeve Is. | INFORMED R, IOA NEVER |

| ASSESSME ASSESSME NASA FME | NT | II | | 6/13/8 EPD&C- NONE | | • | | | | ASA DATA: BASELINE NEW | | | | |
|---|--|----|------|--------------------------|-------|--------|------|-------|-----|------------------------------|------------|-------------|--|--|
| SUBSYSTEM: EPD&C MDAC ID: 6589 ITEM: RPC, 20A TO ORB BUS C LEAD ANALYST: K. SCHMECKPEPER | | | | | | | | | | | | | | |
| LEAD ANA | LYS | ST | : | K. SCI | IMECI | KPEPEF | 2 | | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | | |
| | CRITICALITY REDUNDANCY SCREENS CIL ITEM | | | | | | | | | | | | | |
| FLIGHT HDW/FUNC A B C | | | | | | | | | | | | • | | |
| NASA IOA | [| 3 | /3 |] | [|] | [|] | [|] | [|] *] | | |
| COMPARE | [| N | /N |] | [| 1 | [|] | [| 1 | [| 1 | | |
| RECOMMEN | 'DA' | ΓI | ons: | (If | dif | feren | t fr | om NA | SA) | | | | | |
| | [| | / | 1 | [|] | [|] | [|] (A | [DD/DI |] ELETE) | | |
| * CIL RE | CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE [] | | | | | | | | | | | | | |
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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6590 | NASA DATA: BASELINE [] NEW [X] | | | | | | | | |
|--|----------------------------------|---|--------------------|--|--|--|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6590 RPC, 20A TO ORI | B BUS C | | | | | | | | |
| LEAD ANALYST: | K. SCHMECKPEPER | R | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | |
| CRITICAL FLIGH | ITY REDUNDA | ANCY SCREENS | CIL ITEM | | | | | | | |
| HDW/FU | | В С | 2221 | | | | | | | |
| NASA [/ IOA [3 /1R |] []] | [] [] [F] [P] | [] * [x] | | | | | | | |
| COMPARE [N /N |] [N] | [N] [N] | [N] | | | | | | | |
| RECOMMENDATIONS: | (If different | t from NASA) | | | | | | | | |
| [3 /1R |] [P] | | [] ADD/DELETE) | | | | | | | |
| * CIL RETENTION | RATIONALE: (If a | applicable) | | | | | | | | |
| | | ADEQUATE INADEQUATE | | | | | | | | |
| REMARKS: AFTER THE REDESI THAT THIS FAILUR RECEIVED AN UPDA | e has been and i | OWER CIRCUITS, IOA WA IS DETECTABLE. HOWEV | AS INFORMED | | | | | | | |
| In OIDA | | A TIVITI TITTO. | | | | | | | | |

| ASSESSMEN ASSESSMEN NASA FMEA | T ID: | 6/13/8 EPD&C- NONE | 7 6591 | | NASA DATA: BASELINE [] NEW [X] | | | | | | | | |
|--|--|--------------------------|-----------|----------|-----------------------------------|-------|-----|------|------------|-------------|--|--|--|
| SUBSYSTEM MDAC ID: | : | EPD&C 6591 RPC, 2 | OA T | o ori | BUS | s C | | | | | | | |
| LEAD ANAI | YST: | K. SCH | MECH | (PEPEI | R | | | | | | | | |
| ASSESSMEN | ASSESSMENT: CIL | | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL ITEM | | | | | | | | | | | | | |
| FLIGHT HDW/FUNC A B C | | | | | | | | | | | | | |
| NASA IOA | |] | [|] *] | | | | | | | | | |
| COMPARE | | | [| 3 | [|] | [|] | [|] | | | |
| RECOMMEN | TONS | : (If | dif | ferer | nt fr | om NA | SA) | | | | | | |
| RECOMMEN | [/ | • | |] | | | [|] (2 | [ADD/D |] ELETE) | | | |
| * CIL RETENTION RATIONALE: (If applicable) ADEQUATE [] INADEQUATE [] | | | | | | | | | | | | | |
| REMARKS IOA AND CONSTRA | REMARKS: IOA AND NASA WERE UNABLE TO REVIEW THIS FMEA DUE TO TIME CONSTRAINTS. ITS PROBABLE THAT THIS FMEA IS COVERED ELSEWHERE. | | | | | | | | | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-65 | 92 | NASA DATA: BASELINE [] NEW [X] | | | | | | | |
|---|--------------------------------------|--|---|-----------------------------|--|--|--|--|--|--|
| SUBSYSTEM: MDAC ID: ITEM: | 6592 | TO ORB BUS C | | | | | | | | |
| LEAD ANALYST: | K. SCHME | CKPEPER | | | | | | | | |
| ASSESSMENT: | | | | | | | | | | |
| CRITICAL FLIGH | | REDUNDANCY SCR | EENS | CIL | | | | | | |
| HDW/FU | | • | С | ITEM | | | | | | |
| NASA [/ IOA [3 /1R |] [] [P |] [] [F] | [] [P] | [] * [x] | | | | | | |
| COMPARE [N /N |] [N | [N] | | [א] | | | | | | |
| RECOMMENDATIONS: | (If dif | ferent from NA | ASA) | | | | | | | |
| | |] [P] | (Al | [] DD/DELETE) | | | | | | |
| * CIL RETENTION R | ATIONALE: | (If applicabl | e) | | | | | | | |
| REMARKS: | | | ADEQUATE INADEQUATE | [] | | | | | | |
| AFTER THE REDESIG THAT THIS FAILURE RECEIVED AN UPDAT | N OF THE S HAS BEEN ED SCHEMAT | SRB POWER CIRC AND IS DETECT CIC TO VERIFY | UITS, IOA WAS ABLE. HOWEVE THIS. | S INFORMED CR, IOA NEVER | | | | | | |

| ASSESSMENT DATE: 6/13/87 ASSESSMENT ID: EPD&C-6593 NASA FMEA #: NONE REPD&C SUBSYSTEM: EPD&C | | | | | | | | | | | | | |
|--|---|-----|------|-------------------------|-------|--------|------------|-------|-----|--------------------|-------------|-------------|--|
| SUBSYSTEM MDAC ID: | M: | | | EPD&C 6593 RPC, 2 | 20A T | ro ori | BUS | s с | | | | | |
| LEAD ANA | LYS | ST: | ; | K. SCI | MECI | KPEPEI | ₹ | | | | | | |
| ASSESSME | SSESSMENT: | | | | | | | | | | | | |
| CRITICALITY REDUNDANCY SCREENS CIL ITEM | | | | | | | | | | | | | |
| FLIGHT HDW/FUNC A B C | | | | | | | | | | | | | |
| NASA IOA | [| 3 | /3 |] |] | [|] * | | | | | | |
| COMPARE | [| N | /N | 1 | [|] | (|] | [|] | ſ | 1 | |
| RECOMMEN | DA! | ri | ons: | (If | dif | feren | t fr | om NA | SA) | | | | |
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| * CIL RE | TE | NT: | ION | RATION | ALE: | (If | appl | icabl | A | DEQUATE DEQUATE | [|] | |
| | INADEQUATE [] EMARKS: OA AND NASA WERE UNABLE TO REVIEW THIS FMEA DUE TO TIME CONSTRAINTS. ITS PROBABLE THAT THIS FMEA IS COVERED ELSEWHERE. | | | | | | | | | | | | |

| ASSESSMI | SESSMENT DATE: 6/06/87 SESSMENT ID: EPD&C-6594 SA FMEA #: 05-6-2391-1 | | | | | | | | | | | | | | ASA BAS | EL] | | [| x |] | |
|-------------------------------|---|-----|------------|--|------|------------|--------|-----|------|-------------------|----------|------|------|--------|--------------|-----|-------------|---|-----|---|-----|
| SUBSYSTI MDAC ID: ITEM: | | | | EPD&C 6594 RPC, 20A TO APCA K. SCHMECKPEPER | | | | | | | | | | | | | | | | | |
| LEAD AND | ALYS | ST: | | ĸ. | SC | HMI | ECI | KPI | EPEI | R | | | | | | | | | | | |
| ASSESSMI | ENT: | : | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | DANCY SCREENS B C | | | | | | | CIL ITEM | | | | |
| | | | • | | | | | | | | _ | | | | | | | | | | |
| NASA IOA | [| 3 | /1R /1R |] | | [| P P |] | | [| NA NA | .] | [| P P |] | | | [| |] | * |
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| RECOMMEN | DAT | 'IO | NS: | | (If | di | ff | er | ent | : 1 | ro | m N2 | ASA) | | | | | | | | |
| | [| , | / |) | | [| |] | | [| |] | (| |] | | (AI | | 'DE | | TE) |
| * CIL RE | TEN | TI | ON F | TAS | IONA | ALE | : | (1 | f a | pp | li | cab] | le) | | | | | | | | |
| DEMADUC. | | | | | | | | | | | | | IN | | DEQI DEQI | | | [| |] | |

| ASSESSMEI ASSESSMEI NASA FME | T | ID | | EPD& | /87 C-659! -2391 | | | | | ASA D BASEL | | | | |
|------------------------------------|-----|-----|--------------|----------------------|------------------------|-------|-------|-----|-------|----------------|----|----------|--------|--------|
| SUBSYSTEM MDAC ID: | M: | | | EPD& 6595 RPC, | | TO Al | PCA-2 | | | | | | | |
| LEAD ANA | LYS | T: | | ĸ. s | CHMEC | KPEPI | ER | | | | | | | |
| ASSESSME | NT: | : | | | | | | | | | | | | |
| | CRI | | | ITY | R | EDUN | DANCY | SCI | REENS | | | CII | | |
| | I | | LIGH V/FU | | A | | В | | (| 2 | | | | |
| NASA IOA | [| 3 | /3 /3 |] | [|] | [|] | [|] | | [|] | * |
| COMPARE | [| | / |] | [|] | [|] | [|] | | [|] | |
| RECOMMEN | IDA | TI: | ons: | ; (: | [f di | ffere | nt fr | om | nasa) | | | | | |
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| * CIL RI | ETE | NT | ION | RATI | ONALE | : (If | appl | ica | | ADEQU ADEQU | | [| ; ; |]] |

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| LEAD AN | ALY | ST: | | ĸ. | sc | НМЕ | ECK | PE | EPEI | 2 | | | | | | | | | | | |
| ASSESSMI | ENT | : | | | | | | | | | | | | | | | | | | | |
| | | ITIC FLI HDW/ | [GH] | ľ | | | RE A | DU | ND | M | CY SO | CREE | N | s C | | | | CII ITI | | | |
| NASA IOA | [| 3 / | '1R '1R |] | | [| P P |] | |] | NA] NA] | |] [| P P |] | | | [| | | * |
| COMPARE | [| / | , |] | | [| |] | | [| 1 | | [| |] | | l | [|] | | |
| RECOMMEN | DA' | NOI | s: | (| (If | đi | ffe | er | ent | f | rom | NAS | A) | | | | | | | | |
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| * CIL RE REMARKS: | TEN | TIO | N R | ATI | ONZ | ALE | : (| (I: | fa | рp | lica | | | | | ATE ATE | | , , , |] | | |

| ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-6597 NASA FMEA #: 05-6-2391-2 | | | | | | | | | | LINE NEW | [| | | |
|---|------|----------------|-----------------------|-------|----------|--------|------|-------|---|-------------|----------|-----|---------|-----|
| SUBSYSTEM MDAC ID: | M: | | EPD&C 6597 RPC, | | TO R | ELAY | | | | | | | | |
| LEAD ANA | LYS' | r: | K. SC | CHMEC | KPEP | ER | | | | | | | | |
| ASSESSME | NT: | | | | | | | | | | | | | |
| | | TICAL | | F | REDUN | DANCY | SCF | REENS | | | CI | L | | |
| | | FLIGH DW/FU | | 7 | \ | В | | C | 1 | | | | | |
| NASA IOA | [| 3 /3 3 /3 |] | [|] | [[|] | [|] | | [| : |] | * |
| COMPARE | ι | / | 1 | [|] | [|] | [|] | | [| • |] | |
| RECOMMEN | DAT | ions: | (I: | f di | ffere | nt fr | om 1 | NASA) | | | | | | |
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| * CIL RE | TEN | TION | RATIO | NALE | : (If | appl | ical | P | | ATE | | |] | |

| ASSESSMENT DATI ASSESSMENT ID: NASA FMEA #: | | | NASA DAT BASELIN NE | • | |
|---|---------------------------|--------|---------------------------|------------------------------|--------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6598 RPC, 20A | TO A | PCA-2 | | |
| LEAD ANALYST: | K. SCHME | CKPEPI | ER | | |
| ASSESSMENT: | | | | | |
| CRITICA FLIG | | REDUNI | DANCY SCRE | ENS | CIL ITEM |
| | UNC A | A. | В | С | IIEM |
| NASA [3 /1 IOA [3 /1 | R] [] R] [] | ?] | [NA] [NA] | [P] [P] | [] * |
| COMPARE [/ | .] [|] | [] | [] | [] |
| RECOMMENDATIONS | : (If di | feren | nt from NA | SA) | |
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| * CIL RETENTION REMARKS: | RATIONALE: | (If | applicabl | e) ADEQUATE INADEQUATE | [] |

| ASSESSMENT DATE: 6/06/87 ASSESSMENT ID: EPD&C-6599 NASA FMEA #: 05-6-2391-2 | | | | | | | | | | ASA DATA BASELINE NEW | | _ | |
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| SUBSYSTEM MDAC ID: | M: | | | EPD8 6599 RPC | | TO A | PCA-2 | | | | | | |
| LEAD ANA | LYS | T: | : | к. 5 | SCHMEC | KPEP | ER | | | | | | |
| ASSESSME | NT: | ; | | | | | | | | | | | |
| | | Fl | CAL LIGH V/FU | | R | | DANCY B | SCR | EENS C | | CII | | |
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| NASA IOA | [[| 3 3 | /3 /3 |] | [|] | [|] | [| 1 | [| ; " | |
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| RECOMMEN | DA! | ri(| ons: | (| If dif | fere | nt fr | om N | IASA) | | | | |
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| SUBSYSTI MDAC ID: ITEM: | | | | 6 | PD&C 600 PC, | 201 | A ' | то | REI | LA: | Y | | | | | | | | |
| LEAD AND | ALY | ST | ': | K | . sc | HMI | EC: | KPE | EPEF | 2 | | | | | | | | | |
| ASSESSMI | ENT | : | | | | | | | | | | | | | | | | | |
| | | F | ICAL LIGH W/FU | T | | | RI A | | INDA | N | CY SC | REEN | is C | ı | | CI IT | L EM | I | |
| | | | • | | | | | | | | _ | | _ | | | | | | |
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| RECOMMEN | IDA! | rI(| ons: | | (If | di | .f1 | fer | ent | f | rom 1 | NASA | .) | | | | | | |
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| * CIL RE | TE | NT: | ION I | RAT | 'IONA | LE | : | (I | fa | pp | lica | ble) | | | | | | | |
| DEMADUC. | | | | | | | | - | | - | | • | | | JATE JATE | [[| : |] | |

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|----------------------------------|------|-----|-------------|--------------------|----------------------------|------|--------|------|-------|-----------------|----|----------|---------|-----------|---|
| SUBSYSTE MDAC ID: | | | | EPD 660: RPC | | o Ri | ELAY | | | | | | | | |
| LEAD ANA | LYS | ST: | | к. | SCHMECK | (PEP | ER | | | | | | | | |
| ASSESSME | ENT: | : | | | | | | | | | | | | | |
| | CR | | CAL LIGH | | RE | DUN | DANCY | SCI | REENS | | | CI IT | L EM | | |
| | 1 | | V/FU | | A | | В | | | C | | | | | |
| NASA IOA |] | 3 | /3 /3 |] | [|] | [[|] | [|] | | [| | * | |
| COMPARE | [| | / |] | [| 1 | ĺ |] | [| 3 . | | [|] |] | |
| RECOMME | NDA | TI | ons: | (| If dif | fere | nt fr | om 1 | NASA) | | | | | | |
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| * CIL R | ETE | NT | ION | RATI | ONALE: | (If | appl | ica | | ADEQU ADEQU | | [| |] | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/13/87 EPD&C-6602 NONE | NASA DATA BASELINE NEW | | | | | |
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| | EPD&C 6602 DIODE TO ORB BUS C | 2 | | | | | |
| LEAD ANALYST: | K. SCHMECKPEPER | | | | | | |
| ASSESSMENT: | | | | | | | |
| FLIGHT | | SCREENS | CIL ITEM | | | | |
| HDW/FU | IC A B | c | *** | | | | |
| NASA [/ IOA [3 /1R |] [] [F |] [] ; | [] * [x] | | | | |
| COMPARE [N /N |] [и] [и | ן א ן | [N] | | | | |
| RECOMMENDATIONS: | (If different fr | om NASA) | | | | | |
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| * CIL RETENTION F | ATIONALE: (If appl | icable) | | | | | |
| REMARKS: | | ADEQUATE INADEQUATE | [] | | | | |
| AFTER THE REDESIGNATION THAT THIS FAILURE | N OF THE SRB POWER HAS BEEN AND IS DI ED SCHEMATIC TO VEI | ETECTABLE HOWRUR | INFORMED R, IOA NEVER | | | | |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/13/87 EPD&C-66 NONE | 603 | | NASA DATA BASELINI NEV | |
|--|-----------------------------|-----------|---------------------|------------------------------|----------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6603 DIODE TO | O ORB BU | s c | | |
| LEAD ANALYST: | K. SCHM | ECKPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL | | REDUNDA | NCY SCREI | ens | CIL ITEM |
| FLIGH HDW/FU | | A | В | C | - : |
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| RECOMMENDATIONS: | (If d | lifferent | from NA | SA) | |
| [/ |] [|] | [] | [] | [] ADD/DELETE) |
| * CIL RETENTION | RATIONAL | Œ: (If a | pplicabl | e) ADEQUATE INADEQUATE | - |
| REMARKS: IOA AND NASA WEI CONSTRAINTS. IT | RE UNABLE | E TO REVI | EW THIS THIS FME | FMEA DUE TO A IS COVERE | TIME ED ELSEWHERE |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | EPD&C-6604 | NASA DATA: BASELINE [] NEW [X] | | | | | | |
|--|-----------------------------------|---|-----------------------------|--|--|--|--|--|
| MDAC ID: | EPD&C 6604 DIODE TO ORB BUS | s c | | | | | | |
| LEAD ANALYST: | K. SCHMECKPEPER | | | | | | | |
| ASSESSMENT: | | | | | | | | |
| CRITICALI FLIGHT | | NCY SCREENS | CIL ITEM | | | | | |
| HDW/FUN | IC A | В С | | | | | | |
| NASA [/ IOA [3 /1R |] []] [P] | [] [] [F] [P] | [] * [x] | | | | | |
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| RECOMMENDATIONS: | (If different | from NASA) | | | | | | |
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| * CIL RETENTION R | ATIONALE: (If ap | oplicable) | | | | | | |
| REMARKS: | | ADEQUATE INADEQUATE | [] | | | | | |
| AFTER THE REDESIG | HAS BEEN AND IS | WER CIRCUITS, IOA WAS DETECTABLE. HOWEVE VERIFY THIS. | S INFORMED ER, IOA NEVER | | | | | |

| ASSESSMENT ASSESSMENT NASA FMEA | ' ID | TE: | 6/13 EPD& NONE | C-6605 | | | | | SA DATA: ASELINE NEW | |] |
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| SUBSYSTEM: MDAC ID: ITEM: | ; | | EPD& 6605 DIOI | | RB | BUS C | | | | | |
| LEAD ANALY | ST: | | к. 8 | CHMECK | PEP | ER | | | | | |
| ASSESSMENT | r: | | | | | | | | | | |
| CI | | | ITY | RI | EDUN | DANCY | SCF | REENS | | CIL ITEN | 1 |
| | | JIGH V/FU | NC | A | | В | | С | | | |
| NASA IOA | [3 | / /3 |] | [|] | [|] | [|]] |] |] * |
| COMPARE | [И | /N |] | [|] | [|] | [|] | [|] |
| RECOMMEND | ATIO | ons: | (| If dif | fere | ent fr | om 1 | NASA) | | | |
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| * CIL RET | ENT | ION | RATI | ONALE: | (11 | f appl | ica | A. | DEQUATE DEQUATE | |] |
| REMARKS: IOA AND N CONSTRAIN | | | RE UN | ABLE T | O RI | EVIEW AT THI | THI S F | S FMEA MEA IS | DUE TO | TIME ELS | EWHERE |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 6/13/87 EPD&C-6606 NONE | | NASA DATA BASELINE NEW | |
|---|----------------------------------|-------------------------|---|--------------------------|
| MDAC ID: | EPD&C 6606 DIODE TO ORB BU | s c | | |
| LEAD ANALYST: | K. SCHMECKPEPER | | | |
| ASSESSMENT: | | | | |
| CRITICALI FLIGHT | TY REDUNDA | NCY SCREEN | is | CIL |
| | IC A | В | С | ITEM |
| NASA [/ IOA [3 /1R |] []]] |] [] [[F] | P] | [] * [x] |
| COMPARE [N /N |] [N] | [N] | и] | [N] |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6607 DIODE TO | O ORB BU | s C | | | | | · |
| LEAD ANALYST: | K. SCHM | ECKPEPER | | | | | • | |
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| LEAD ANALYST: | K. SCHMECKPEPER | |
| ASSESSMENT: | | * |
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| SUBSYSTEM: EPD&C MDAC ID: 6612 ITEM: DIODE LEAD ANALYST: K. SCHMECKPEPE | | | | | | | | | | | | | |
| LEAD AND | ALYS | T: | : | K. SC | HMEC | KPEPE | R | | | | | | |
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| CRITICALITY REDUNDANCY SCREENS CIL ITEM | | | | | | | | | | | | |
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| LEAD ANA | LYS | T: | K. s | CHME | CKPE | PER | | | | | | | |
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| SUBSYSTE MDAC ID: ITEM: | | | EPD&C 6616 DIODE | | | | | | | | | |
| LEAD ANA | LYS | r: | K. SC | HMEC | KPEPE | ER | | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6617 DIODE | | | | | | | |
| LEAD ANALYST: | K. SCHMEC | KPEPER | Ł | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6622 RELAY TO | OIA E | BUS | | |
| LEAD ANALYST: | K. SCHME | | CR . | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6623 RELAY TO O | IA BUS | | | | | | | | | | | | |
| LEAD ANALYST: | K. SCHMECK | PEPER | | | | | | | | | | | | |
| ASSESSMENT: | CTI. | | | | | | | | | | | | | |
| = | CIL ITEM | | | | | | | | | | | | | |
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| ASSESSMENT DATE: 12/05/87 ASSESSMENT ID: EPD&C-66 NASA FMEA #: 05-6-214 SUBSYSTEM: EPD&C MDAC ID: 6623 ITEM: RELAY TO | | | | | | | | | | | | | | ASA D BASEL | | [| x |] | |
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| LEAD ANA | LYS | T: | | K. | SCE | ME | CK | PEPE | R | | | | | | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | | EPD&C 6624 RELAY TO | OIA B | US | | | |
| LEAD ANALY | ST: | K. SCHME | CKPEPE | R | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6625 RELAY TO C | IA BUS | | | |
| LEAD ANALYST: | K. SCHMECK | PEPER | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6627 RELAY TO O | IB BUS | | |
| LEAD ANALYST: | K. SCHMECK | PEPER | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6629 RELAY TO C | OIB BUS | | | |
| LEAD ANALYST: | K. SCHMECK | KPEPER | | | |
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| SUBSYSTE MDAC ID: | | | EPD&C 6630 RELAY | | ACA | #1 & | ACA | #3 | | | |
| LEAD ANA | LYS | T: | K. sc | HMEC | KPEF | PER | | | • | | |
| ASSESSME | ENT: | | | | | | | | | | |
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| | ŀ | | LIGH V/FU | | A | | В | | C | | | |
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| SUBSYSTEM MDAC ID: | M: | | | | EPI 665 SWI | 5.2 | , | то | GGLE | 3 | P | 2P LE | EVER | . 1 | ြေ | CK | (E' | r | SE | P S | SL | CI | ·) |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6654 SWITCH, T | OGGLE 31 | P2P LEV | ER LOCK (E | T SEP SLCT) |
| LEAD ANALYST: | K. SCHMEC | KPEPER | | | ************************************** |
| ASSESSMENT: | | | | | |
| CRITICAL: FLIGHT | | EDUNDANC | Y SCREI | ens | CIL ITEM |
| HDW/FUR | VC A | | В | С | IIEM |
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| NASA HAS COMBINED CONCURS. | THIS FAIR | LURE MOD | E WITH | 05-6-2237- | ·1. IOA |

| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 12/07/87 EPD&C-66 05-6-223 | うちち | | NASA DATA: BASELINE NEW | [x] | | | | | | | |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6655 SWITCH, | TOGGLE | 3P2P (SRB | SEP SLCT) | | | | | | | | |
| LEAD ANALYST: | K. SCHME | ECKPEPER | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | REDUNDA | NCY SCREE | ns | CIL ITEM | | | | | | | |
| FLIGH HDW/FU | С | | | | | | | | | | | |
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| REMARKS: NASA HAS ADDED CONCURS. | THE FAIL | JRE MODE | OF "SHOR | TS TO GROUN | AND IOA | | | | | | | |

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| SUBSYSTI MDAC ID: ITEM: | | | | EPD&0 6656 SWITO | | T | 0GG1 | LÆ 3 | P2 F |) (SRB | SE | P SLCI | | • | |
| LEAD ANA | LY | ST | : : | K. sc | CHM | EC | KPEI | PER | | | | | | | |
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| NASA IOA | [| 3 2 | /1R /1R |] |] | P P |] |] | P NA |] [| P |] |] | X] * X] | |
| COMPARE | . [| N | / |] | ĺ | |] | [| N |) [| N |] | |] | |
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|--|-------------------------------------|------------|---------------------|-------------------------------|-------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6657 SWITCH, TO | OGGLE 3P2I | e (SRB S | EP SLCT) | |
| LEAD ANALYST: | K. SCHMECE | KPEPER | | | |
| ASSESSMENT: | | | | | |
| CRITICAL | | EDUNDANCY | SCREENS | 3 | CIL ITEM |
| FLIGH HDW/FU | _ | В | | С | |
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| RECOMMENDATIONS: | (If dif | ferent fr | om NASA) |) | |
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| * CIL RETENTION | RATIONALE: | (If appl | | ADEQUATE | |
| REMARKS: NASA HAS COMBINE CONCURS. | D THIS FAI | LURE MODE | WITH O | 5-6-2238-1 | . IOA |

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| SUBSYSTE MDAC ID: | | | | EPD 665 FUS | | то і | et tui | MBLE | ARM | | | | |
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| SUBSYST MDAC ID ITEM: | | 3 | | EPD&C 6660 HYBRI | | DR | IVER | т | YPF | : III | то | ET | TUM | BLE | CK | T | | |
| LEAD AN | ALY | ST | ': | K. sc | HM | EC | KPEP: | ER | | | | | | | | | | |
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| * CIL RE | TEN | ITI | ON R | ATIONA | LE | : | (If | ap | pli | .cabl | e) | | | | | | | • |
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| ASSESSMENT DATE: 12/07/ ASSESSMENT ID: EPD&C- NASA FMEA #: 05-6-2 SUBSYSTEM: EPD&C | | | | | | | | | | | | | |] | | | DATA LINE NEW | - [| |] | | |
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| SUBSYSTE MDAC ID: | | | | 66 | PD&C 62 BRI | D I | DR: | IVE | RI | 'Y ! | PΕ | III | TO |)] | ET | TUM | IBLE | C | кт | | | |
| LEAD ANA | LY | ST | : | ĸ. | SCI | HM: | EC: | KPE | PER | t | | | | | | | | | | | | |
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| RECOMMEN | DAT | rio | ons: | | (If | đi | iff | ere | ent | f | rc | m N | ASA | .) | | | | | | | | |
| | RECOMMENDATIONS: (If | | | | | | | | | [| |] | [| |] | | (Al | | DE | | TE | :) |
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NASA REEVALUATION DUE TO NSTS 22206 CHANGE CONCERNING HAZARD TO

POPULATION FROM THE EXTERNAL TANK.

| ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #: | TE: 1/01/8 EPD&C- 05-6-2 | 6663 | | NASA DATA: BASELINE NEW | [x] |
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| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6663 MASTER | EVENTS C | ONTROLLER | #1 - CRITIC | AL COMMANDS |
| LEAD ANALYST: | K. SCH | MECKPEPER | | | |
| ASSESSMENT: | | | | | |
| | CALITY | REDUNDA | NCY SCREE | ns | CIL ITEM |
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| * CIL RE | TEN | ΤI | ON I | RAT | IONA | \LE | : | (If | app | ol i | .ca | ble) | | | | | | | • | |
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| ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: | 1/01/88 EPD&C-6664A 05-6-2490-3 | | NASA DATA: BASELINE NEW | [x] |
|--|---------------------------------------|----------------------|-------------------------------|-------------------|
| SUBSYSTEM: MDAC ID: ITEM: | EPD&C 6664 MASTER EVEN | TS CONTROLLER | - CRITIC | AL COMMANDS |
| LEAD ANALYST: | K. SCHMECKP | PEPER | | |
| ASSESSMENT: | | | | |
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| LEAD ANALYST: K. SCHMECKPEPER | | | | | | | | | | | | | |
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| COMPARE | C | / | 1 | [|] | [|] | |] | | [. |] |
| RECOMME | TADI | IONS | : (: | If di | ffere | nt f | rom N | (ASA) | | | | |
| | C | / | 1 | [|] | [| 1 | [|] | (AI | [DD/DI |] ELETE) |
| * CIL R | ETEN | TION | RATI | ONALE | : (If | app | licak | | ADEQUI ADEQUI | | [|] |
| REMARKS THESE C UPDATE | OMPO | NENT MATI | S WER CS IN | E ADD TIME | ED TO | THE | VEHI ZE TI | ICLE. | IOA | DID | NOT | RECEIVE |

| ASSESSMENT DATE: 1/01/88 ASSESSMENT ID: EPD&C-6710X NASA FMEA #: 05-6-2904-2 | | | | | | | NASA DATA: BASELINE [] NEW [] | | | | | | | |
|--|--------------|--------------|------------------------|-------|----------|--------------|---------------------------------|-------------|-------|------|------------|-------------|--|--|
| SUBSYSTI MDAC ID: ITEM: | | | EPD&C 6710 DIODE | | CALOS | CION | 35A - | - MEC | 1 & | 2 IN | 1PUT | POWER | | |
| LEAD AND | ALYS | T: | K. sc | HME | CKPE | PER | | | | | | | | |
| ASSESSMI | ENT: | | | | | | | | | | | | | |
| | | FLIGH | | F | REDUN | IDANC' | Y SCI | REENS | | | CIL | | | |
| | H | DW/FU | INC | A | L | 1 | В | (| 2 | | | H | | |
| NASA IOA |] | / |] | [|] | [|] | [|] | | [|) *] | | |
| COMPARE | [| / |] | [|] | |] | C |) | | [|] | | |
| RECOMMEN | DAT | cons: | (If | dif | fere | nt fr | om N | ASA) | | | | | | |
| | [| / |] | [|) | (| 3 | [|] | (A | [DD/D1 |] ELETE) | | |
| * CIL RE | TENT | NOI | RATION | ALE: | (If | appl | icab | le) | | | | | | |
| REMARKS: | | | | | | | | A INA | DEQUA | | [|] | | |
| THESE CO | MPON CHEM | ENTS ATIC | WERE A | ADDE! | D TO | THE NALYZ | VEHI E TH | CLE. EM. | IOA | DID | NOT | RECEIVE | | |

APPENDIX D

CRITICAL ITEMS

ORIGINAL PAGE IS OF POOR QUALITY

| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE |
|--|--|--|---|
| (7) 100 · (7) (7) (7) | 1000 1000 1000 1000 1000 1000 | | 100 ONE 100 ONE 100 ONE 100 ONE 100 ONE 100 ONE 100 ONE 100 ONE 100 ONE 100 ONE |
| 05-6-2003-1 | 5025 | | FAILS OPEN |
| 05-6-2003-1 | 5151 | SWITCH, MOTORIZED (MA | FAILS OPEN |
| 05-6-2003-1 | 5152 | SWITCH, MOTORIZED (MA | FAILS OPEN |
| 05-6-2003-2 | 5 0 26 | SWITCH, MOTORIZED (MA | FAILS CLOSED |
| 82-9-50 0 2-5 | 5150 | SWITCH, MOTORIZED (MA | FAILS CLOSED |
| 05-6-2003-2 | 5153 | SWITCH, MOTORIZED (MA | FAILS CLOSED |
| 05-6-2005A-3 | 6683 | BUS, MAIN DC A | LOSS OF OUTPUT |
| グラームーフがから日一巻 | A. A. C2 /1 | BUS, MAIN DC A BUS, MAIN DC B | LOSS OF OUTPUT |
| <u> 25-6-2025C-3</u> | 6685 | BUS, MAIN DC C FUSE, 150A TO FPCA-1 | LOSS OF OUTFUT |
| <u> 25-6-2006-1</u> | 5085 | FUSE, 150A TO FFCA-1 | FAILS OPEN |
| 05-6-2006-1 | 5086 | FUSE, 150A TO FPCA-1 | FAILS OPEN |
| <u> </u> | 5087 | FUSE, 150A TO FPCA-1 | FAILS OPEN |
| 05-6-2005C-3 05-6-2006-1 05-6-2006-1 05-6-2006-1 05-6-2006-1 | 5091 | FUSE, 150A TO MAIN DC | FAILS OPEN |
| 00-0-2000-1 | 5M92 | FUSE, 150A TO MAIN DC | FAILS OPEN |
| 05-6-2 0 06-1 | 5093 | FUSE, 15ØA TO MAIN DO | FAILS OPEN |
| 05-6-2006-1 | | FUSE, 150A TO FPCA-2 | FAILS OPEN |
| 05-6-2006-1 | | FUSE, 150A TO FPCA-2 | FAILS OPEN |
| 05-6-2006-1 | | - FUSE, LOWA III FPHA-2 | FATIC SEEN |
| 05-6-2006-1 | | LOSE, TOMA IN MAIN DO | FAILS OPEN |
| 05-6-2006-1 | | FUSE, 150A TO MAIN DO FUSE, 150A TO MAIN DO | FAILS OPEN |
| 05-6-2006-1 | | FUSE, 150A TO MAIN DO | FAILS OPEN |
| Ø5-6-20 Ø 6-1 | | FUSE, 150A TO FPCA-3 | FAILS OPEN |
| W5-6-2006-1 | | FUSE, 150A TO FPCA-3 | FAILS OPEN |
| Ø5-6-2008A-1 | | FUSE, 150A TO FPCA-3 FUSE, 150A TO FPCA-3 FUSE, 200A TO MAIN DC FUSE, 200A TO MAIN DC FUSE, 200A TO APCA-4 | FAILS OPEN |
| 05-6-2008A-1 | | FUSE, 200A TO MAIN DC | FAILS OPEN |
| 05-6-2008A-1 | 5017 | FUSE, 200A TO APCA-4 | FAILS OPEN |
| WUTOTZWW8A-1 | 5018 | FUSE, 200A TO APCA-4 FUSE, 200A TO MAIN DC FUSE, 200A TO MAIN DC FUSE, 200A TO AFCA-5 FUSE, 200A TO AFCA-5 | FAILS OPEN |
| | 5125 | FUSE, 200A TO MAIN DC | FAILS OPEN |
| WAR AND THE CONTROL OF THE AND AND AND AND AND AND AND AND AND AND | 51%6 | FUSE, 2004 TO MAIN DC | FAILS CPEN |
| | 0146 | EUSE, 200A TO AFCA-5 | FATUS OPEN |
| the feet from the first that the first first | L + / | -FUSE, ZWWH IU APUA-5 | Walla action |
| 91-1-20952-1 | 046 | FUSE, 2004 TO MAIN DC | FAILS OFEN |
| 95-5-2508C-1 | The second second | FUSE, 200A TO AFCA-5 | Faile CME |
| 051208C-1 | CD - D - D MI submitted to | FUSE, 1900 TO ARCA-5 | 10.0 |
| 15-1-1012-1 | | SUSE, 2004 TO APCA-6 | FAILE SPEN |
| 05-6-1015-4 | AABA | ESSENTIAL BUSSSES | LSSS OF POWER |
| W5-6-2015-a | 5888 5892 | INVERTER 1 A | FHASE MEE CHANNE |
| 25-6-2015-4 | 58 7 4 | INVERTER 1 8 | PHASE REF CHARGE |
| 05-6-2015-4 | | INVERTER 1 C | PHASE REF CHANGE |
| 25-6-2715-4 | 42/45 44/49 | INVERTER 2 4 | PHASE REF CHANGE |
| 25-6-1015-a | 6497T | INVERTER 2 B | FHASE REFORMED |
| 75 1015-d | - 14 (14 (14 (14 (14 (14 (14 (14 (14 (14 | INVERTER 2 C | CHASE REF CHANGE |
| 55-a-0015-4 | 60 (22) 44 (5) 60 (22) 44 (5) | TIMETER I 4 | - 万号を開催 中国日 つ。日と自作日 |
| 05-1-1015-4 | 01 : 6235 | INVERTER 3 6 | CHANE SEF CHARE |
| 05-6-0 01 5-8 | 52.55 5888 | INVERTER E O | FIGURE SEE CHARGE |
| 95-4-1015-5 | 5892 | INVERTED 1 A | SARA SE SE SERVICIONAL |
| V5-5-2015-5 | 5896 | INVERTER 1 B | LOSS OF FRED EVMC |
| 75-5-1015-5 | | INVERTER 1 0 | LOSS OF FREE SYNO |
| the transfer of the said of the said | Survivation of | (NVERTER 2 A | LOSS F FREG SYNA |

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| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE |
|----------------------|-------------------|--|--------------------------|
| | | TAULTETTE O D | LOSS OF FREQ SYNC |
| 05-6-2015-5 | 6069 | INVERTER 2 B | LOSS OF FRED SYNC |
| Ø5-6-2015-5 | 6073 | INVERTER 2 C | LOSS OF FREQ SYNC |
| Ø5-6-2Ø15-5 | 6245 | INVERTER 3 A INVERTER 3 B | LOSS OF FRED SYNC |
| 005-6-2015-5 | 6249 | | LOSS OF FRED SYNC |
| Ø5-6-2Ø15-5 | <u> </u> | INVERTER 3 C RELAY, LATCHING TO AC | FAILS CLOSED |
| Ø5-6-2 Ø 16-2 | 593 <u>6</u> | RELAY, LATCHING TO AC | FAILS CLOSED |
| 05-6-2016-2 | 5937 | RELAY, LATCHING TO AC | FAILS CLOSED |
| 05-6-2016-2 | 5940 | | FAILS CLOSED |
| Ø5-6-2 Ø 16-2 | 6111 | Managed a market contract of the contract of t | FAILS CLOSED |
| Ø5-6-2 Ø 16-2 | 6113 | (Alamana) is a factor of the contract of the | FAILS CLOSED |
| Ø5-6-2 0 16-2 | 6115 | 1 Manufacture 1 at 1 and 1 f and 1 f and 1 f and 1 | FAILS CLOSED |
| Ø5-6-2Ø16-2 | 6309 | I Standard I I I I I I I I I I I I I I I I I I I | FAILS CLOSED |
| Ø5-4-2Ø14-2 | 6311 | Manual de la company de la com | FAILS CLOSED |
| 05-6-2016-2 | 6313 | (\land Land) A Land A Land ONE PHASE SHORTS |
| 05-6-2017-1 | 6687 | AC BUS 1,2,3 BUS, CONTROL AB1, AB2 | LOSS OF POWER |
| 05-6-2132-1 | 6691 | RELAY, LATCHING TO IN | FAILS CLOSED |
| Ø5-6-2139-2 | 5842 | | FAILS CLOSED |
| 05-6-2139-2 | 5864 | 1 Chamber 1 2 g. mark 1 mark 1 | FAILS CLOSED |
| Ø5-6-2139-2 | 5866 | 1 A transfer to 1 at 1 at 1 at 1 at 1 at 1 at 1 at 1 | FAILS CLOSED |
| 05-6-2139-2 | 6057 | 1 Charles 1 1 g and 1 c and 1 c | FAILS CLOSED |
| Ø5-6-2139-2 | 6059 | I have been to the first the transfer of the t | FAILS CLOSED |
| Q5-6-2139-2 | 6061 | I Sharehouse I is go to be a second of the s | FAILS CLOSED |
| 05-6-2139-2 | 6237 | I Visualization I I is a second of the secon | FAILS CLOSED |
| Ø5-6-2139-2 | 6238 | the same of the sa | FAILS CLOSED |
| 05-6-2139-2 | <u> </u> | [Almahan Francis de la martina de la marti | FAILS CLOSED |
| 05-6-2140-2 | 5335 | 11.79 to 1 1.21 to 1 1.22 | FAILS TO TRANSFER |
| Ø5-6-2142-1 | 5336 | SWITCH, MOTORIZED (F/ RELAY TO OIA BUS | SHORTS TO GROUND |
| 05-6-2143-1 | 6623 | RELAY TO DIA BUS | SHORTS TO GROUND |
| 05-6-2145-1 | 4425 | RELAY TO DIA BUS | SHORTS TO GROUND |
| Ø5-6-2143-1 | 6627 | RELAY TO DIB SUS | SHORTS TO SECURD |
| 05-5-2143-1 | 6629 | RELAY TO DIS DUD | FAILS TO TRAMSFER |
| 05-6-2143-3 | 6622 | RELAY TO DIA SLE | PARLE IN THE RESERVE |
| | | RELAY TO DIE BUB | TARLE DE TARRESER |
| 35-c-1143-1 | a a 4 | RELAY FO DIB 205 | FAILS TO TRANSPER |
| 75-4-1143-I | 46128 | 100 per 100 pe | grank to protect to each |
| 35-4-1145-4 | 6627 6627 | | EMORT POLE-FOREST. |
| | 6 6 2 B | RELAY TO DIA 808 | ENGRY POLE-78CL |
| 75-6-2143-4 | 6627 | RELAY TO DIB BUS | SHORT POLE-TO-PUL |
| 05-6-2143-4 | 5629 | are the course of the property of the course | PAILS OPEN |
| 05-6-2181-1 | 5066 | and the same of th | FAILS OPEN |
| 052181-1 | 5068 | DIODE, ISOLATION 12A DIODE, ISOLATION 12A | FAILS OPEN |
| <u> </u> | 5074 | proper regulation 12A | FALLS SPEN |
| 057151-1 | 5 A.W. *** | | FACLS OPEN |
| 75-6-2161-1 | 5417 | 0:00E. (SOLATION TEA DIODE. ISOLATION TEA | raild area |
| | MALES Victoria | and the same of th | FAILE CHEM |
| 05-6-2181-1 | 5.576 | DIODE, IBULATION EAR DIODE, ISOLATION IZA | FAILS OPEN |
| 05-4-2181-1 | 6577 2774 | and the second s | FAILS OFTH |
| | 6574 670,600 | DIODE, ISOLATION LZA DIODE, ISOLATION LZA | FATLS OPEN |
| 75-5-2157-1 | 20 O 21 | EASTERNATION OF THE STATE OF TH | |

| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE |
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| | | | miles these terms town rates with your than some verse trade town trade which when man |
| Ø5-6-2183-1 | 5176 | DIODE, ISOLATION 12A DIODE, ISOLATION 12A DIODE, ISOLATION 12A DIODE, ISOLATION 12A DIODE, ISOLATION 12A DIODE, ISOLATION 35A | FATIS OPEN |
| Ø5-6-2183-1 | 6377 | DIODE. ISOLATION 12A | FATIS OFEN |
| Ø5-6-2184-2 | 5055 | DIODE. ISOLATION 124 | SHORTS |
| Ø5-6-2184-2 | 5179 | DIODE, ISOLATION 124 | SHORTS |
| 05-6-2184-2 | 6379 | DIODE. ISOLATION 124 | SHORTS |
| Ø5-6-2185-1 | 5477 | DIODE. ISOLATION 35A | FATIS OPEN |
| 05-6-2185-1 | 5484 | DIODE, ISOLATION 35A | FATIO OPEN |
| 05-6-2185-1 | 5542 | DIODE, ISOLATION 35A | FATIS OPEN |
| Ø5-6-2185-1 | 5549 | DIODE, ISOLATION 35A | FAILS OPEN |
| Ø5-6-2185-1 | 5593 | DIODE, ISOLATION 35A | FATIS OPEN |
| 05-6-2185-1 | 5600 | DIODE, ISOLATION 35A | FATIS OPEN |
| Ø5-6-2185-2 | 5478 | DIODE. ISOLATION 35A | SHORTS |
| Ø5-6-2185-2 | 5483 | DIODE, ISOLATION 35A | SHORTS |
| Ø5-6-2185-2 | 5543 | DIODE, ISOLATION 35A | SHORTS |
| Ø5-6-2185-2 | 5548 | DIODE, ISOLATION 35A | SHORTS |
| Ø5-6-2185-2 | 5594 | DIODE, ISOLATION 35A | SHORTS |
| Ø5-6-2185-2 | 5599 | DIODE, ISOLATION 35A | SHORTS |
| 05-6-2186-1 | 5480 | DIODE, ISOLATION 35A | FATIS OPEN |
| 05-6-2186-1 | 5481 | DIODE, ISOLATION 35A | FAILS OPEN |
| 05-6-2186-1 | 5545 | DIODE, ISOLATION 35A | FAILS OPEN |
| Ø5-6-2186-1 | 5546 | DIODE, ISOLATION 35A | FAILS OPEN |
| Ø5-6-2186-1 | 5596 | DIODE, ISOLATION 35A | FAILS OPEN |
| Ø5-6-2186-1 | 5597 | DIODE, ISOLATION 35A | FAILS OFFN |
| 05-6-2186-2 | 5479 | DIODE, ISOLATION 35A | SHORTS |
| Ø5-6-2186-2 | 5482 | DIODE, ISOLATION 35A | SHORTS |
| 02-6-5186-5 | 5544 | DIODE, ISOLATION 35A | SHORTS |
| 0 5-6-2186-2 | | - NIONE * 120CHTION 328 | SHORTS |
| Ø5-6-2186-2 | 5595 | - UTUBDE . TSB ATTIN 350 | © LIO DOMO |
| Ø5-6-2186-2 | 5598 | DIODE, ISOLATION 35A DIODE, BLOCKING DIODE, BLOCKING DIODE, BLOCKING DIODE, BLOCKING DIODE, BLOCKING | SHORTS |
| W5-5-2188-2 | 5465 | DIODE, BLOCKING | SHORTS |
| W5-6-Z188-2 | 5475 | DIODE, BLOCKING | SHORTS |
| W5-6-2188-2 | 5527 | DIODE, BLOCKING | SHORTS |
| | 5540 | DIODE, BLOCKING | SHORTS |
| 80-6-2166-2 | | DIODE, BLOCKING | SHORTS |
| Word from the first that that the | (C) *+) | DIDDE, BLUCKING | SHORTS |
| 05-6-2191-1 05-6-2191-2 | 5503 | DIODE, ISOLATION 35A | SHORTS |
| | 5504 | DIODE, ISOLATION 35A | SHORTS |
| Ø5-6-2191-2 | 5548 | OIODE, ISOLATION 35A | SHORTS |
| 05-6-2191-2 05-6-2191-2 | 5569 | DIODE, ISOLATION 35A | SHORTS |
| 25-6-2191-2 | 5616 | DIODE, ISOLATION 35A | SHORTS |
| 05-6-2191-3 | 5619 | DIODE, ISOLATION 35A | SHORTS |
| 00-0-2191-3 05-6-2191-3 | 5502 | DIODE, ISOLATION 35A | SHORTS TO GROUND |
| 05-6-2191-3 | 5505 | DIODE, ISOLATION 35A | SHORTS TO GROUND |
| 95-6-2191-3 | 5567 | DIODE, ISOLATION 35A | SHORTS TO GROUND |
| 75-6-2191-3 | 5570 | DIODE, ISOLATION 35A | SHORTS TO GROUND |
| 25-6-2191-3 | 5617 | OIODE, ISOLATION 35A | SHORTS TO GROUND |
| 25-5-2197-1 | 5618 8407 | DIODE, ISOLATION 35A | SHORTS TO GROUND |
| 75-6-2197-1 | 5693 5696 | DIODE, ISOLATION 12A | FAILS OPEN |
| THE WAY COME TO SEE A SECOND S | J:070 | DIODE, ISOLATION 12A | FAILS OPEN |

| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE |
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| | | | |
| Ø5-6-2197-1 | 5697 | DIODE, ISOLATION 12A | FAILS OPEN |
| Ø5-6-2197-1 | 5700 | DIODE ISOLATION 12A | FAILS OPEN |
| Ø5-6-2197-1 | 5701 | nione ISOLATION 12A | FAILS OPEN |
| 05-6-2197-1 | 5704 | DIODE ISOLATION 12A | FAILS OPEN |
| Ø5-6-2197-1 | 5739 | nione isolation 12A | FAILS OPEN |
| Ø5-6-2197-1 | 5742 | DIONE ISOLATION 12A | FAILS OPEN |
| Ø5-6-2197-1 | 5743 | DIODE. ISOLATION 12A | FAILS UPEN |
| 05-6-2197-1 | 5746 | NIONE ISOLATION 12A | FAILS UPEN |
| Ø5-6-2197-1 | 5747 | DIODE. ISOLATION 12A | HAILS OFEN |
| Ø5-6-2197-1 | 575Ø | - stand - tool ATTON 194 | FALS OPEN |
| | 5769 | DIODE, ISOLATIUN 12A | LHITO OLEM |
| OF / O107-1 | 5770 | DIODE, ISOLATION 12A | FHILE OFEN |
| 05-6-2197-1 | | DIODE, ISOLATION 12A | FAILS OPEN |
| Ø5-6-2197-1 | 5776 | DIODE, ISOLATION 12A | FAILS OPEN |
| | 5777 | 11 COM 15 COM FOR THE LAND LAND | 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Ø5-6-2197-1 | | DIODE: ISHBILUN 148 | |
| 05-6-2197-2 | 5694 | NIONE ISOLALIUN 12A | SHUNIS |
| 05-6-2197-2 | 5695 | - DIODE, ISOLATIUN 12A | SHURIS |
| 05-6-2197-2 | . 5698 | DIODE. ISOLATIUN 12A | phonip |
| 05-6-2197-2 | 5699 | DIODE, ISOLATION 12A | SHUR!S |
| Ø5-6-2197-2 | 5702 | DIODE, ISOLATION 12A | SHORTS |
| Ø5-6-2197-2 | 5703 | DIODE, ISOLATION 12A | SHORTS |
| Ø5-6-2197-2 | 5740 | DIODE, ISOLATION 12A | SHORTS |
| Ø5-6-2197-2 | 5741 | DIODE, ISOLATION 12A | SHORTS |
| Ø5-6-2197-2 | 5744 | DIODE, ISOLATION 12A | SHORTS |
| 05-6-2197-2 | 5745 | DIODE, ISOLATION 12A | SHORTS SHORTS |
| Ø5-6-2197-2 | 5/48 | DIODE, ISOLATION 12A | |
| Ø5-6-2197-2 | 5749 | DIODE, ISOLATION 12A | SHORTS |
| 05-6-2197-2 | 5770 | DIODE, ISOLATION 12A | SHORTS |
| Ø5-6-2197-2 | 5771 5774 | DIUDE, ISSUEDIUM LAM | SHORTS |
| Ø5-4-2197-2 | 5//4 | DIODE, ISOLATION 12A | SHORTS |
| 05-6-2197-2 | 0//0 | DIODE, ISOLATION 12A | EHGRTE |
| 05-4-2197-2 | 5770 9770 | nione igniation 12A | SHORTS |
| 25-4-2197-2 | 533 0 | DIODE, ISOLATION 12A DIODE, ISOLATION 12A DIODE, ISOLATION 12A DIODE, ISOLATION 12A DIODE, ISOLATION 12A DIODE, ISOLATION 12A DIODE, ISOLATION 35A | FAILS OPEN |
| 75-6-22V6-1 | | DIODE, ISOLATION 35A | FAILS OPEN |
| 25-4-2208-1 | 5049 | SWITCH, TOGGLE SPDT (| FAILURE TO TRANSF |
| 05-4-2211-1 05-4-2211-1 | 5182 | SWITCH, TOGGLE SPOT (| FAILURE TO TRANSF |
| 05-6-2211-1 | 5371 | SWITCH, TOGGLE DPDT (| FAILURE TO TRANSF |
| 25-6-2211-3 | 5050 | SWITCH, TOGGLE SPDT (| INADVERTENT TRANS |
| 25-6-2211-J | 5183 | SWITCH, TOGGLE SPOT (| INADVERTENTLY TEA |
| 05-6-2211-3 | 5372 | SWITCH, TOGGLE DPDT (| INADVERTENTLY TRA |
| 05-6-2212-2 | 5047 | SWITCH, TOGGLE SPDT (| SHORTS TO GROUND |
| 05-6-2212-2 | 5180 | SWITCH, TOGGLE SPDT (| SHORTS TO GROUND |
| 05-6-2212-2 | 53.69 | SWITCH. TOGGLE SEDT | SHORTS TO GROUND |
| Ø5-6-2215-1 | 5459 | SWITCH, TOGGLE SFDT (| FAILS GPEN |
| Ø5-6-2213-1 | 5524 | SWITCH, TOGGLE 3PDT (| FAILS OPEN |
| 05-6-2213-1 | 5622 | SWITCH, TOGGLE JPDT (| FAILS OPEN |
| 05-6-2213-2 | 5459 | SWITCH, TOGGLE SPDT (| SHORTS TO GROUND |
| And that I get the street from the little | | | |

| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE |
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| | | | |
| 05-6-2213-2 | 5524 | SWITCH, TOGGLE 3FDT (| SUCETS TO SECULE |
| 05-6-2213-2 | 5422 | SWITCH, TOGGLE 3PDT (| |
| 05-6-2214-1 | | SWITCH, TOGGLE 3PDT (| SHORTS TO GROUND |
| 05-6-2214-1 | 5518 | SWITCH, TOGGLE 3PDT (| FAILS OPEN |
| 05-6-2214-1 | 5628 | SWITCH, TOGGLE 3PDT (| CATE OF THE |
| 05-6-2214-2 | 5455 | SWITCH, TOGGLE 3PDT (| CHOCTO TO GOODING |
| 05-6-2214-2 | 5518 | SWITCH, TOGGLE 3PDT (| UNIONIS TO COULD |
| 05-6-2214-2 | 5628 | SWITCH, TOGGLE 3PDT (| SHORTS TO GROUND |
| 05-6-2226-2 | 5309 | SWITCH, TOGGLE SPDT (| INABUESTENT TOAKS |
| Ø5-6-2226-3 | 5308 | SWITCH, TOGGLE SPDT (| SHORTS TO GROWN |
| Ø5-6-2227-3 | 5306 | SWITCH, TOGGLE SPDT (| SHORTS TO GROUND |
| 035-6-2227-3 | 5310 | SWITCH, TOGGLE SPDT (| SHORTS TO GROUND |
| Ø5-6-2228-3 | 5184 | SWITCH, TOGGLE SPDT (| SHORTS TO GROUND |
| Ø5-6-2228-3 | 5373 | SWITCH, TOGGLE SPDT (| SHORTS TO GROUND |
| Ø5-6-2231-1 | 6357 | SWITCH, TOGGLE DPDT (| FAILS OPEN |
| 05-6-2231-1 | 6359 | SWITCH, TOGGLE DPDT (| FAILS OPEN |
| Ø5-6-2233-1 | 5260 | SWITCH, TOGGLE SPDT (| FAILS OPEN |
| Ø5-6-2234-1 | 5258 | SWITCH, TOGGLE DPDT (| FAILS OPEN |
| Ø5-6-2235-2 | 6649 | SWITCH, FUSHBUTTON (E | FAILS OFF |
| Ø5-6-2236-2 | 6651 | SWITCH, PUSHBUTTON (S | FAILS OFF |
| Ø5-6-2237-1 | 6652 | SWITCH, TOGGLE 3P2P L | FATIS OFF |
| 05-6-2238-1 | 6655 | - SWITCH. FOGGLE SERR / | FATIS OFF |
| | 6656 | OMITCH, TUBBLE OFZE (| FAILS ON |
| 05-6-224 0- 2 05-6-2261-1 | 5318 | SATION INCORE SENT (| SHURIS IU GRIIND |
| | | CANCOL DICERCAL TOM | FALLS LIFEN |
| | 54Ø6 | CIUCOII BUENKEK' IMA | FAILS OPEN |
| 05-6-2262-1 | 579Ø | CIRCUIT BREAKER, 10A FUSE, 5A TO CONT BUS | |
| 95-4-2242-1 | 5791 | FUSE, 5A TO CONT BUS | FAILS OPEN |
| | 5792 | FUSE, SA TO CONT BUS | FAILS UPEN |
| | 5793 | FUSE, 5A TO CONT BUS | MALLO UMEN |
| | | FUSE, 5A TO CONT BUS | TAILS OF THE |
| 95-6-026J-1 | 5795 | FUSE, SA TO CONT AUS | |
| | | FUSE, 5A TO CONT BUS | FATE OF COUNTY |
| Ø5-6-2262-1 | 5797 | FUSE, 5A TO CONT BUS | FAILS OFEN |
| 05-6-2262-1 | 5798 | FUSE, 5A TO CONT BUS | FAILE OPEN |
| 05-5-2263-1 | | CIRCUIT BREAKER, 5A (| FAILS OPEN |
| 35-6-2263-1 | 50/76 | CIRCUIT BREAKER, 5A (| FAILS OPEN |
| Ø5-6-2263 -1 | 5172 | CIRCUIT BREAKER, 5A (| FAILS OPEN |
| 05-6-2265-2 | 5933 | CIRCUIT BREAKER, 3A T | FAILS CLOSED |
| 35 -6-2265-2 | 5 0 82 | CIRCUIT BREAKER, 3A T | FAILS CLOSED |
| 95-4-2245-2 | 6263 | CIRCUIT BREAKER, 3A T | FAILS CLOSED |
| 95-6-1076-1 | 5492 | FUSE, 15A TO MPCA-1 | FAILS OPEN |
| 25-4-2274-1 | 5557 | FUSE, 15A TO MPCA-2 | FAILS OPEN |
| | 5508 | FUSE, 15A TO MPCA-3 | FAILS OPEN |
| 05-6-2278-1 | 5059 | FUSE, 35A | FAILS OPEN |
| 75-6-2278-1 75-6-2278-1 | 5060 5074 | FUSE, 35A | FAILS OPEN |
| 95-6-2278-1 | 5061 | FUSE, ISA | FAILS OPEN |
| www.napmcham.com.t | 5062 | FUSE, 35A | FACLS OPEN |

| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE |
|--|--|--|--------------------------------------|
| -10 .000 010 100 -000 010 010 110 110 110 110 | and the state of t | | FAILS OPEN |
| Ø5-6-2278-1 Ø5-6-2278-1 Ø5-6-2278-1 | 5190 | FUSE, 35A | FAILS OPEN |
| Ø5-6-2278-1 | 5191 | FUSE, 35A | FAILS OPEN |
| Ø5-6-2278-1 | 5195 | | FAILS OPEN |
| 05-6-2278-1 | 5196 | · · · · · · · · · · · · · · · · · · · | TAILS OFFN |
| Ø5-6-2278-1 | 5395 | FUSE, 35A | FAILS OPEN |
| Ø5-6-2278-1 | 5396 | FUSE, 35A | FAILS OPEN |
| Ø5-6-2278-1 | 5401 | FUSE, 35A | FAILS OPEN |
| 05-6-2278-1 | 5402 | FUSE, 35A | FAILS OPEN |
| 05-6-2280-1 | 5396 5401 5402 5063 5194 5322 5323 | FUSE, 15A TO A6A1 PAN | FAILS OFEN |
| Ø5-6-228Ø-1 | 5194 | FUSE, 15A TO A14 PANE | FAILS OFEN |
| 05-6-2289-1 | 5322 | FUSE, 200A TO PAYLOAD | |
| Ø5-6-2289-1 | 5323 | FUSE, 200A TO PAYLOAD | |
| 1/13-6-22-23-1 | | FUSE, 200A TO PAYLOAD | FAILS OPEN |
| 05-6-2289-1 | 5325 | FUSE, 200A TO PAYLOAD | FAILS UPEN |
| 05-6-2291-1 | 55Ø1 | FUSE, 7.5A IN ALCATA | LMTCO OF MA |
| 05-6-2291-1 | 5572 | FUSE. 7.5A IU ALLATA | LHILD OF TH |
| 05-6-2291-1 | 5621 | FUSE, 7.5A TO ALCA-3 | FAILS OPEN |
| Ø5-6-2293A-1 | 5107 | FUSE, 100A TO ALCA-1 | FAILS OPEN |
| Ø5-6-2293B-1 | 5246 | FUSE, 100A TO ALCA-2 | FAILS OPEN |
| 05-6-2294-1 | 5096 | FUSE, 35A TO FLCA-1 | FAILS OFEN |
| Ø5-6-2294-1 | | FUSE, 35A TO FLCA-2 | FAILS OPEN |
| 05-6-2294-1 | 5427 | FUSE, 35A TO FLCA-3 | FAILS OPEN |
| | 5100 | FUSE, 150A TO MPCA-1 | FAILS OPEN |
| And the commence of the commen | 5232 | FUSE, 100A TO MPCA-2 | FAILS OPEN |
| The same of the sa | 5436 | FUSE, 7.5A TO ALCA-3 FUSE, 100A TO ALCA-1 FUSE, 100A TO ALCA-2 FUSE, 35A TO FLCA-1 FUSE, 35A TO FLCA-2 FUSE, 35A TO FLCA-3 FUSE, 150A TO MFCA-1 FUSE, 100A TO MFCA-2 FUSE, 100A TO MFCA-3 | FAILS OPEN |
| 22. 24. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25 | 6562 | RESISTOR, 15K TO ALCA | SHORTS |
| | 6563 | ocetetop isk to ALCA | SHURIS |
| | 6564 | RESISTOR, 15K TO ALCA | SHURID |
| Ø5-6-2329-2 | 656 5 | RESISTOR, 15K TO ALCA | SHURID |
| Ø5-6-233 Ø -1 | | RESISTOR, 7.5K TO DC | FAILD UTEN |
| Ø5-6-233 Ø -1 | 6559 | RESISTOR. 7.5K TO DC | HAILD UPDI |
| Ø5-6-233 Ø -1 | 6560 | RESISTOR, 7.5% TO DC | FAILS UPEN |
| 05-6-2350-1 | ఉన్ని | RESISTOR, 7.5K PU DU | |
| 25-6-23456-1 | 5030 | 122 122 4 3 3 3 4 4 5 | FAILS OFEN |
| Ø5-6-2345B-1 | 5136 | SHUNT, DO AMMETER (TO | FAILS OPEN |
| 35-6-2345C-1 | 5357 | SHUNT, OC AMMETER (TO | FAILS OPEN |
| 25-4-2359-1 | 6352 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| Ø5-6-3359-1 | 6355 | 1 Change and the last 1 than 1 that 1 the | FAILS OFEN |
| Ø5-6-2361-2 | 5906 | AC OVER/UNDER VOLT SN | LOSS OF OUTPUT |
| Ø5-6-2361-2 | 6135 | AC OVER/UNDER VOLT SN | LOSS OF OUTFUT |
| Ø5-4-23 41 -2 | 4245 | AC OVER/UNDER VOLT SN | LOSS OF DUTEUT |
| Ø5-6-2389-1 | SØØS | RPC, 7.5A (GSE MAIN A | FAILS CLOSED |
| 05-6-2389-1 | 5122 | RPC, 7.5A (GSE MAIN B | FAILS CLOSED |
| 05-6-2389-1 | 5343 | RPC, 7.5A (GSE MAIN C | FAILS CLOSED |
| 75-6-2393-1 | 6362 | RPC, 10A TO MEC #2 | FAILS OPEN |
| <u> </u> | 6364 | RPC, 10A TO MEC #2 | FAILS OPEN |
| 05-6-2393-1 | 63 6 6 | RPC, 10A TO MEC #1 | FAILS OPEN FAILS OPEN |
| 05-6-2393-1 | 5368 | the same and the same are the party of a party of the same are the sam | FAILS ON |
| 05-6-2471-2 | 5659 | HYBRID DRIVER TYPE I | Control of the control of the second |
| | | | |

APPENDIX D POTENTIAL CRITICAL ITEMS

| NASA FMEA | | ITEM | FAILURE MODE |
|---|-----------------|--|-------------------|
| | | | |
| 05-6-2471-2 | 5661 | HYBRID DRIVER TYPE I HYBRID DRIVER TYPE I HYBRID DRIVER TYPE I HYBRID DRIVER TYPE I HYBRID DRIVER TYPE I HYBRID DRIVER TYPE II | EATLC ON |
| 05-6-2471-2 | 5667 | HYBRID DRIVER TYPE I | CHILD ON |
| 05-6-2471-2 | 5669 | HYBRID DRIVER TYPE T | FAILS ON |
| Ø5-6-2471-2 | 5671 | HYBRID DRIVER TYPE I | FAILS ON |
| Ø5-6-2471-2 | 5673 | HYBRID DRIVER TYPE I | FATE ON |
| 05-6-2474-1 | 5901 | HYBRID DRIVER TYPE IT | EVITO ON |
| 05-6-2474-1 | 6076 | HYBRID DRIVER TYPE II | FAILS ON |
| Ø5-6-2474-1 | 6256 | HYBRID DRIVER TYPE IT | CATLO ON |
| Ø5-6-2485-2 | 5843 | HYBRID DRIVER TYPE II | FAILS ON |
| Ø5-6-2485-2 | 5845 | HYBRID DRIVER TYPE II | FAILS ON |
| 05-6-2485-2 | 5847 | HYBRID DRIVER TYPE II | FATE ON |
| Ø5-6-2485-2 | 6008 | HYBRID DRIVER TYPE II | CATE ON |
| Ø5-6-2485-2 | 6010 | HYBRID DRIVER TYPE II | EATLE ON |
| 05-6-2485-2 | 6012 | HYBRID DRIVER TYPE II | LUITO ON |
| 05-6-2485-2 | 6188 | HYBRID DRIVER TYPE II | |
| 05-6-2485-2 | 6191 | HYBRID DRIVER TYPE II | FATIS ON |
| 05-6-2485-2 | 6192 | HYBRID DRIVER TYPE II | FATIC ON |
| 05-6-2486-2 | 5849 | HYBRID DRIVER TYPE II | FAILS ON |
| Ø5-6-2 486- 2 | | HYBRID DRIVER TYPE II | FAILS ON |
| Ø5-6-2486-2 | | HYBRID DRIVER TYPE II | FATIS ON |
| Ø5-6-2486-2 | 6014 | | |
| Ø5-6-248 <i>6</i> -2 | 6016 | | |
| Ø5-6-24 86- 2 | 6018 | HYBRID DRIVER TYPE IT | FATIS ON |
| Ø5-6-2486-2 | 6195 | HYBRID DRIVER TYPE II HYBRID DRIVER TYPE II HYBRID DRIVER TYPE II HYBRID DRIVER TYPE II HYBRID DRIVER TYPE II HYBRID DRIVER TYPE I | FATIS ON |
| 0 5-6-2486-2 | 6196 | HYBRID DRIVER TYPE II | FATIS ON |
| 05-6-2486-2 | 6199 | HYBRID DRIVER TYPE II | FAILS ON |
| 05-6-2489-2 | 5841 | HYBRID DRIVER TYPE I | FATIS ON |
| Ø5-6-2489-2 | (m, 40, 40, (m) | - DIODID DRIVER TYPE I | FATIC ON |
| 05-6-2489-2 | 4. 1 (2) 7 | HYBRID DRIVER Type i | FATIC ON |
| <u> </u> | 6663 | MASTER EVENTS CONTROL | LASS OF ALTERT |
| <u>05-6-2490-1</u> | 6665 | MASTER EVENTS CONTROL | LOSS OF OUTSIT |
| W5-6-249Ø-2 | 6664 | MASTER EVENTS CONTROL | INADVERTENT OUTPU |
| 05-6-2490-1 05-6-2490-1 05-6-2490-2 05-6-2490-2 05-6-2490-3 25-6-2490-3 | baaa | MASTER EVENTS CONTROL MASTES EVENTS CONTROL | INADVERTENT SETPE |
| WD-6-1490-3 | 5664 | MASIER EVENTS CONTROL | INADVERTENT DETRO |
| | | MASTER EVENTS CONTROL | INADVERTENT OUTPU |
| U5-6-2491-1 | 5667 | MASTER EVENTS CONTROL | LOSS OF OUTPUT |
| Ø5-6-2491-1 | 6669 | MASTER EVENTS CONTROL | LOSS OF OUTPUT |
| 05-6-2491-2 | 5668 | MASTER EVENTS CONTROL | INADVERTENT OUTFU |
| 25-6-2491-2 | 667Ø | MASTER EVENTS CONTROL | IMADVERTENT OUTPU |
| Ø5-4-2493-1 | 6659 | HYBRID DRIVER TYPE II | FAILS OFF |
| 05-6-2493-1 05-6-2493-2 | <u> </u> | HYBRID DRIVER TYPE II | FAILS OFF |
| 95-6-2493-2 | 6660 | HYBRID DRIVER TYPE II | FAILS ON . |
| 25-6-24 9 4-2 | 566Z | HYBRID DRIVER TYPE II | FAILS ON |
| 23-3-2474-2 25-3-3494-2 | 6531 | HYBRID ORIVER TYPE I | FAILS ON |
| 20707.474-Z 205-6-2494-2 | 6533 | HYBRID DRIVER TYPE I | FAILS ON |
| 20-5-2494-2 | 6533 | HYBRID DRIVER TYPE I | FAILS ON |
| 95-6-2496-1 | 6537 | HYBRID DRIVER TYPE I | FAILS ON |
| 95-6-2496-1 | 6546 | HYBRID DRIVER TYPE V | FAILS OFF |
| on said that the Matter the Section of the Section | 6548 | HYBRID DRIVER TYPE V | FAILS OFF |

| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE | |
|---|--------------|--|---|--|
| First come crists while their print their come ages alone area while their said their said. | | | FAILS OFF | |
| Ø5-6-2496-1 | 655 0 | HYBRID DRIVER TYPE V | FAILS OFF | |
| Ø5-6-2496-1 | 6552 | HYBRID DRIVER TYPE V | LOSS OF OUTPUT | |
| Ø5-6-25 Ø 8-1 | 6697 | CONTROLLER, PYRO INIT | PREMATURE OUTPUT | |
| Ø5-6-25 Ø 8-2 | 569B | CONTROLLER, PYRO INIT | | |
| 05-6-2509-1 | 6699 | CONTRACTOR INC. | ATT 1 1 100 pm 2 1 100 pm | |
| Ø5-6-25 Ø 9-2 | 67 00 | CONTROLLER, PYRO INIT | | |
| Ø5-6-251 Ø -1 | 6701 | CONTROLLER, PYRO INIT | and a supplemental to the | |
| Ø5-4-251Ø-2 | 67Ø2 | CONTROLLER, PYRO INIT | | |
| Ø5-6-26Ø3-1 | 5486 | FUSE, 10A TO ESS BUS | | |
| 05-6-2 60 3-1 | 5487 | FUSE, 10A TO ESS BUS | | |
| 05-6-2603-1 | 5550 | FUSE, 10A TO ESS BUS | FAILS OFEN | |
| 05-6-2603-1 | 5551 | FUSE, 10A TO ESS BUS | | |
| Ø5-6-26 Ø 3-1 | 5601 | FUSE, 10A TO ESS BUS | | |
| Ø5-6-26 Ø 3-1 | 5602 | FUSE, 10A TO ESS BUS | | |
| Ø5-6-26 Ø 4-1 | <u> </u> | FUSE, 3A TO ET TUMBLE | FAILS OPEN | |
| Ø5-6-26Ø5-1 | 5485 | FUSE, 7.5A | | |
| Ø5-6-26 Ø 5-1 | 5496 | FUSE, 7.5A | FAILS OPEN | |
| Ø5-6-26Ø5-1 | 5552 | FUSE, 7.5A | FAILS OPEN | |
| 05-6-2605-1 | 5560 | FUSE, 7.5A | FAILS OPEN | |
| 05-6-2605-1 | 5603 | FUSE, 7.5A | FAILS OFEN | |
| Ø5-6-26Ø5-1 | 5611 | FUSE, 7.5A | FAILS OPEN | |
| 05-6-2611-1 | 5974 | CIRCUIT BREAKER AC 1A | FAILS OPEN | |
| Ø5-6-2611-1 | 5976 | CIRCUIT BREAKER AC 18 | FAILS OPEN | |
| Ø5-6-2611-1 | 5978 | CIRCUIT BREAKER AC 10 | FAILS OPEN | |
| 05-6-2611-1 | 6139 | CIRCUIT BREAKER AC 2A | FAILS OPEN | |
| Ø5-6-2611-1 | 6141 | CIRCUIT BREAKER AC 2B | FAILS OPEN | |
| Ø5-6-2611-1 | 6143 | CIRCUIT BREAKER AC 2C | FAILS OPEN FAILS OPEN | |
| Ø5-6-2611-1 | 6322 | CIRCUIT BREAKER AC 3A | FAILS OFEN | |
| Ø5-6-2611-1 | 6324 | CIRCUIT BREAKER AC 3B | FAILS OFEN | |
| 05-6-2611-1 | 6326 | CIRCUIT BREAKER AC 3C | FAILS OPEN | |
| 05-6-2612-1 | 5972 | | FAILS OPEN | |
| 05-6-2612-1 | 6155 | CIRCUIT BREAKER TO AM | FAILS OF EN | |
| 95-6-2619-1 | 6354 | CIRCUIT BREAKER TO AM | FAILS OPEN | |
| 05-6-2613-1 | 5969 | DIRCUIT BREAKER TO MM CIRCUIT BREAKER TO MM | FAILS OPEN | |
| Ø5-6-26 1 3-1 | 5148 | Section 2 to the section of the sect | FAILS OPEN | |
| 05-6-2613-1 | 5152 | and the first term of the second | FAILS OPEN | |
| 05-6-2613-1 | 4551 4551 | Country and a first country and a country an | FAILS CLOSED | |
| 95-6-2613-I | 5969 | that all the work and the second seco | FAILS CLOSED | |
| 05-6-2613-2 | 6149 | Same and I a trans the same and | FAILS CLOSED | |
| 05-6-2615-2 | 6153 | that and I have been seen as a second of the | FAILS CLOSED | |
| Ø5-6-2613-2 | 6333 | Sand the 1 Stand Sand the 1 Stand Stand St. St. | FAILS OPEN | |
| 05-6-2614-1 | 5970 | that the first that the first state of the first st | FAILS OPEN | |
| 05-6-2614-1 | 6330 | the state of the s | FAILS CLOSED | |
| Ø5-6-2614-2 | 5971 | CIRCUIT BREAKER IN MM CIRCUIT BREAKER TO MM | FAILS OLOGED | |
| 95-6-2614-2 | 6331 | Sand the 4 states and the 4 states at 10 sta | FAILS OPEN | |
| Ø5-6-2615-1 | 615L | 5.02 de 1 5.000 du m | FAILS OPEN | |
| 05-6-2616-1 | 5147 | | FAILS OFEN | |
| 05-6-2617-1 | 6521 | CIRCUIT BREAKER, JA (CIRCUIT BREAKER, JA (| FAILS OPEN | |
| Ø5-6-2617-L | 6022 | Caroni orchicis on / | | |

APPENDIX D
POTENTIAL CRITICAL ITEMS

| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE |
|----------------------------|--------------------------|---|------------------------------|
| | | CIRCUIT BREAKER, 3A (CIRCUIT BREAKER, 3A (CIRCUIT BREAKER, 3A (CIRCUIT BREAKER, 3A (CIRCUIT BREAKER, 3A (CIRCUIT BREAKER, 3A (CIRCUIT BREAKER, 3A (CIRCUIT BREAKER, 3A (CIRCUIT BREAKER, 3A (CIRCUIT BREAKER, 3A (CIRCUIT BREAKER TO FM (CIRCUIT BREAKER TO FM (CIRCUIT BREAKER TO FM (CIRCUIT BREAKER TO FM (CIRCUIT BREAKER TO FM (FUSE, 1A TO MMCA-1 & (FUSE, 1A TO MMCA-2 & (FUSE, 1A TO MMCA-2 & (FUSE, 1A TO MMCA-4 & (FUSE, 1A TO MMCA-4 & (FUSE, 1A TO MMCA-2 & (FUSE, 1A TO MMCA-2 & (FUSE, 1A TO MMCA-2 & (FUSE, 1A TO MMCA-4 & (FUSE, 1A TO MMCA-2 & (SWITCH, TOGGLE SPST (| |
| 05-6-2617-1 | 6523 | CIRCUIT BREAKER 3A / | EATLO OOTH |
| Ø5-6-2617-1 | 6524 | CIRCUIT BREAKER 30 / | EVILO OPEN |
| 05-6-2617-1 | 6525 | CIRCUIT BREAKER 3A (| EARLO OFEN |
| 05-6-2617-1 | 6526 | CIRCUIT BREAKER 3A (| LUICO OPEN |
| 05-6-2617-1 | 6527 | CIRCUIT BREAKER 3A (| CAIC OPEN |
| 05-6-2617-1 | 6528 | CIRCUIT BREAKER 30 (| TAILS OPEN |
| 05-6-2617-1 | 6529 | CIRCUIT BREAKER 34 (| FAILS OPEN |
| 05-6-2618-1 | 5966 | CIRCUIT BREAKER TO EM | FATIS OFEN |
| Ø5-6-2618-1 | 6144 | CIRCUIT BREAKER TO FM | FATIS OFEN |
| Ø5-6-2618-1 | 6328 | CIRCUIT BREAKER TO FM | FATIS OPEN |
| 05-6-2619-1 | 5799 | FUSE, 1A TO MMCA-1 & | FATIS OFFN |
| 05-6-2619-1 | 5800 | FUSE, 1A TO MMCA-1 & | FAILS OPEN |
| 25-6-2619-1 | 58Ø3 | FUSE, 1A TO MMCA-2 & | FATIS OPEN |
| Ø5-6-2619-1 | 5804 | FUSE. 1A TO MMCA-2 & | FAILS OPEN |
| Ø5-6-2619-1 | 5805 | FUSE, 1A TO MMCA-4 & | FAILS OPEN |
| Ø5-6-2619-1 | 580/6 | FUSE, 1A TO MMCA-4 & | FAILS OPEN |
| 05-6-2619-1 | 58 0 9 | FUSE, 1A TO MMCA-4 & | FAILS OPEN |
| 05-6-2619-1 | 5810 | FUSE, 1A TO MMCA-4 & | FAILS OPEN |
| Ø5-6-262Ø-1 | 58Ø1 | FUSE, 1A TO MMCA-2 | FAILS OPEN |
| 05-6-2620-1 | 580/2 | FUSE, 1A TO MMCA-2 | FAILS OPEN |
| W5-6-262Ø-1 | 5807 | FUSE, 1A TO MMCA-4 & | FAILS OPEN |
| 05-6-2620-1 | 5808 | FUSE, 1A TO MMCA-4 & | FAILS OPEN |
| MD-9-5921-1 | 5110 | SWITCH, TOGGLE SPST (| FAILS OPEN |
| W0-6-2651-1 | 5249 | SWITCH, TOGGLE SPST (| FAILS OPEN |
| 00-6-2601-1 05-4-0450 : | 5449 | SWITCH, TOGGLE SPST (| FAILS OPEN |
| WO-6-2602-1 | 5510 | SWITCH, TOGGLE SPST (| FAILS OPEN |
| 00-0-2002-1 05-4-2450 t | 55/4 5500 | SWITCH, TOGGLE SPST (| FAILS OPEN |
| 95-4-045T-4 | 22 5 8 | SWITCH, TOGGLE SPST (| FAILS OPEN |
| 25-4-245tm1 | DØ84 | SWITCH, TUGGLE SEST (| FAILS OPEN |
| 05-4-7457-1 | Usbabah*# ##/757#Fili | SWITCH, TUGGLE SEST (| FAILS OFEN |
| 215-4-245T-1 | 9434 5434 | DWITCH TOOLS SEST | FAILS OPEN |
| | 4000T | OWITCH FORCE OF ST | FAILS OPEN |
| 95-A-PASS-P | a de de m | GATTON TOOMS OF A | FAILE CLOSED |
| 05-4-2453-2 | 5230 | SWITCH, TOGGLE SPST (| FALE SLUSED |
| 75-6-2653-2 | 5455 | SWITCH, TOGGLE SPST (| FAILS CLOSED |
| Ø5-5-2654-(| 5115 | SWITCH, TOGGLE SPST (| FAILS CLOSED |
| 05-6-2654-1 | 5432 | SWITCH, TOGGLE SPST (| FAILS OFEN |
| 25-6-2654-2 | 5116 | SWITCH, TOGGLE SPST (| FAILS OPEN |
| Ø5-6-2654-2 | 5433 | SWITCH, TOGGLE SPST (| FAILS CLOSED FAILS CLOSED |
| 05-4-2635-1 | 5221 | SWITCH, TOGGLE SPST (| FAILS OFEN |
| Ø5-6-2655-1 | 5228 | SWITCH, TOGGLE SPST (| FAILS OPEN |
| 95-6-1657-1 | 5098 | SWITCH. TOGGLE SPST (| FAILS OPEN |
| Ø5-6-2657-1 | 5206 | SWITCH, TOGGLE SPST (| FAILS OPEN |
| 35-6-2657-1 | 5421 | SWITCH, TOGGLE SPST (| FAILS OPEN |
| 05-6-2558-1 | 5827 | SWITCH, TOGGLE 4PDT (| FAILS OPEN OR SHO |
| Ø5-6-2658-1 | 5830 | SWITCH, TOGGLE 4PDT (| FAILS OPEN OR SHO |
| 05-6-2658-2 | 5828 | SWITCH, TOGGLE 4FDT (| FAILS CLOSED |
| Ø5-6-2638 - 2 | 5829 | SWITCH, TOGGLE 4PDT (| FAILS CLOSED |

| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE |
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| | | | |
| Ø5-6-2659-1 | 6 70 3 | SWITCH, PUSHBUTTON, 4 | FAILS CLOSED |
| Ø5-6-2659-2 | 6704 | SWITCH, PUSHBUTTON, 4 | FAILS OPEN |
| Ø5-6-266 0 -1 | 6705 | SWITCH, ROTARY - ABOR | FAILS OPEN |
| Ø5-6-266 0 -2 | 6706 | SWITCH, ROTARY - ABOR | FAILS CLOSED, CON |
| Ø5-6-27Ø1-1 | 5109 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| | 5248 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| Ø5-6-27 Ø 1-1 | 5448 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| 05-6-2701-1 05-6-2702-1 | 55 0 9 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| | 5573 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| 05-6-2702-1 | 5590 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| 05-6-2702-1 | 5 0 82 | RESISTOR, 1.2K 2W (TO | FAILS OFEN |
| 05-6-2703-1 | 5223 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| Ø5-6-27Ø3-1 | 5229 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| 05-6-2703-1 | 5431 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| 05-6-2703-1 | 5114 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| 05-6-2704-1 | 5430 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| 05-6-2704-1 | 5220 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| Ø5-6-27Ø5-1 | 5226 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| Ø5-6-27Ø5-1 | 5Ø97 | RESISTOR, 1.2K 2W (TO | FAILS OPEN . |
| 05-6-2707-1 | 5205 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| 05-6-2707-1 | 5419 | RESISTOR, 1.2K 2W (TO | FAILS OPEN |
| Ø5-6-2707-1 Ø5-6-2751-1 | 5788 | RELAY, 4P TO PLBM-ACI | FAILS OPEN |
| | 5790 | RELAY, 4P TO PLBM-AC1 | FAILS OPEN |
| 05-6-2751-1 | 5788 | RELAY, 4P TO PLBM-AC1 | POLE-TO-POLE SHOR |
| Ø5-6-2751-2 | 599 0 | RELAY, 4P TO PLBM-AC1 | POLE-TO-POLE SHOR |
| Ø5-6-2751-2 Ø5-6-2752-1 | 6164 | RELAY, 4P TO PLBM-AC2 | FAILS OPEN |
| 05-6-2752-1 | 6167 | RELAY, 4P TO PLBM-AC2 | FAILS OPEN |
| 05-6-2752-2 | 6164 | RELAY, 4P TO PLBM-AC2 | POLE-TO-POLE SHOR |
| Ø5-6-2752-2 | 6167 | RELAY, 4P TO PLEM-AC2 | POLE-TO-POLE SHOR |
| и5-6-2753-1 | 6348 | RELAY, 4P TO PLBM-ACS | FAILS OPEN |
| 05-6-2753-1 | 6350 | RELAY, 4P TO PLBM-ACS | FAILS OPEN |
| 08-4-2753-2 | 5348 | RELAY, 46 TO PL6M-AC3 | POLS-TO-POLE SHOR |
| 75-5-ITE5-I | .5.77 C .2 | RELAY; OF TO PLEM-ACT | FOLI-TO-BALE THUR |
| 35-6-2754-1 | 5992 | RELAY, 46 TO PLBM-ACI | FAILS OFFN |
| 05-4-2754-1 | 5994 | RELAY, 4P TO PLBM-AC1 | FAILE OPEN |
| 05-6-2754-2 | 5992 | RELAY, 4P TO PLBM-AC1 | POLE-TO-POLE SHOR |
| 05-5-2754-2 | 5994 | RELAY, 4P TO PLBM-AC1 | POLE-TO-POLE SHOP |
| 05-6-2755-1 | 6156 | RELAY, 4P TO PLBM-AC2 | FAILS OPEN |
| 05-4-2755-1 | 6159 | RELAY, 4P TO PLBM-AC2 | FAILS OPEN |
| 05-6-2755-2 | 6156 | RELAY, 4P TO PLBM-AC2 | POLE-TO-POLE SHOR |
| Ø5-4-2755-2 | 6159 | RELAY, 4P TO PLBM-AC2 | FOLE-TO-POLE SHOR |
| 05-6-2756-1 | 63.72 | RELAY, 4P TO PLBM-AC2 | FAILS OPEN |
| 05-6-2756-i | 6.17B | RELAY, 4P TO PLEM-ACC | FAILS OPEN POLE-TO-POLE SHOR |
| 25-4-2756-2 | 6172 | RELAY, 4P TO PLBM-AC2 | POLE-TO-POLE SHOR |
| 95-6-2756-2 | 5175 | RELAY, 4P TO PLBM-ACZ | FAILS OPEN |
| 25-6-2757-1 | 6544 | RELAY, 4P TO PLOM-ACT | FAILS OPEN |
| 05-6-2757-1 | 4346 | RELAY, 4P TO PLEM-ACT | FOLE-TO-POLE SHOR |
| 95-6-2757-2 | 6344 | RELAY, 4P TO PLSM-ACT RELAY: 4P TO PLSM-ACT | POLE-TO-POLE SHOR |
| 05-6-2757-2 | 6J46 | RELAY, AP TO PLEM-ACC | The state of the s |

| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE |
|---|--------------------------------|---|--|
| | | | |
| 05-6-2801-1 | 5112 | RFC, 5A (TO AMCA-1) | EATLE CEEN |
| ···· ··· ··· ··· ··· ··· ··· ··· ··· · | الماسية بالمناسبة | TOTAL OF THE AMERICA | FAILS OFFN |
| 05-6-2801-1 | 5451 | | CAILS OFEN |
| 05-6-2802-1 | 5512 | RPC, 5A (TO AMCA-3) | THILD UPEN |
| 05-6-2802-1 | 5576 | RPC 5A (TO BCC/OMB 6 | THILD UPEN |
| 05-6-2802-1 | 5594 | PPC SA /TO DOC/ONG A | FAILS UPEN |
| 05-6-2803-1 | 51003 | RPC 5A (TO MMCA 4) | CHILD OFEN |
| Ø5-6-28Ø3-1 | 5237 | PPC SA (TO MMCA 5) | FAILS OFF |
| 05-6-2803-1 | 5241 | PPC 50 /TO MMON 4) | FAILS OFF |
| 05-6-2803-1 | 5444 | PPC SA (TO MMCA-4) | FAILS OFF |
| 05-6-2803-2 | 51000 | DDC FA (TO MMCA-4) | FAILS OFF |
| Ø5-A-28Ø3-2 | サンマム | AFC, DA (10 MMCA-1) | FAILS ON |
| Ø5-6-28 Ø 3-2 | യകയ ാ ജന ാ ദ് | RFU, DA (10 MMCA-2) | FAILS ON |
| 05-6-2803-2 | 의로작인 5개기학 | RFC, DA (10 MMCA-4) | FAILS ON |
| 05-4-2804-1 | U440 E110 | RPC, SA (TO MMCA-4) | FAILS ON |
| 05-6-2804-1 | 01.16 E440 | RPU, 5A (TO MMCA-3) | FAILS OFF |
| Ø5-A-29 Ø 4-2 | 고부수고 트로크크 | KFU, SA (TO MMCA-2) | FAILS OFF |
| 05-4-2004-2 | D11/ | RPU, 5A (TO MMCA-3) | FAILS ON |
| 05-4-2005-1 | 044I | RPC, 5A (TO MMCA-2) | FAILS ON |
| 05 0 2005-1 05-4-2005-1 | 5235 | RPC, 5A (TO MMCA-1) | FAILS OFF |
| 05-4-2007-1 | 5238 | RPC, 5A (TO MMCA-3) | FAILS OFF |
| 05-4-0007-1 | 2040 | RPC, 5A (FMCA-1 PWR C | FAILS OFF |
| 05-0-2007-1 | 5223 | RPC, 5A (FMCA-2 PWR C | FAILS OFF |
| 05-4 2007-1 | 0426 | RPC, 5A (FMCA-3 PWR C | FAILS OFF |
| 035-4 2002-1 | 5514 | RPC, 5A (TO MMCA-2) RPC, 5A (TO MMCA-4) RPC, 5A (TO MMCA-4) RPC, 5A (TO MMCA-1) RPC, 5A (TO MMCA-1) RPC, 5A (TO MMCA-2) RPC, 5A (TO MMCA-4) RPC, 5A (TO MMCA-3) RPC, 5A (TO MMCA-3) RPC, 5A (TO MMCA-3) RPC, 5A (TO MMCA-2) RPC, 5A (TO MMCA-1) RPC, 5A (TO MMCA-1) RPC, 5A (TO MMCA-1) RPC, 5A (TO MMCA-3) RPC, 5A (TO MMCA-1) RPC, 5A (FMCA-1 PWR C RPC, 5A (FMCA-2 PWR C RPC, 5A (FMCA-3 PWR C DIODE, 12A (TO RCS/OM | FAILS OPEN |
| 05-4-0000 | 5585 | DIODE, 12A (TO RCS/OM | FAILS OPEN |
| 05-4-2002-1 | 5517 | DIODE, 12A (TO RCS/OM | FAILS OPEN |
| 05-6-2702-1 05-4-2000 1 | 55/8 550± | DIODE, 12A (TO RCS/OM | FAILS OPEN |
| 05-4-0000 | 5581 | DIODE, 12A (TO RCS/OM | FAILS OPEN |
| OS-4 Ongo a | 2297 | DIODE, 12A (TO RCS/CM | FAILS OPEN |
| 00 00 72 7 W Z 7 Z 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 5515 | DIODE, 12A (TO RCS/OM | SHORTS |
| | 5516 | DICDE, 12A (TO ROS/OM | SHORTS |
| 95-4-2902-2 | 35/9 | DIODE, 12A (TO ROS/OM | SHORTS |
| 15-5-2902-2 | 558 0 : | DIODE, 12A (TO ROS/GM | SHORTS |
| 95-4-2902-2 | m m (0) m | -PIUDE, IZA (10 RCS/OM | SHORTS |
| 05-6-2902-3 | 5584 | DIODE, 12A (TO ROS/OM | SHORTS |
| 05-6-2902-3 | 5514 | OIODE, 12A (TO RCS/OM | SHORTS TO GROUND |
| 05-6-29 02 -3 | 3585 | DIODE, LZA (TO RCS/OM | SHORTS TO GROUND |
| 05-6-2902-3 | 5517 | DIODE, 12A (TO ROS/OM | SHORTS TO GROUND |
| 05-6-2902-3 | 5578 | DIODE, 12A (TO RCS/OM | SHORTS TO GROUND |
| 25-3-2702-3 25-3-2902-3 | 5581 | DIODE, 12A (TO RCS/OM | SHORTS TO GROUND |
| | 5582 | DIODE, 12A (TO ROSZOM | SHORTS TO BROWN |
| 95-6-2903-1 35-6-2903-1 | 5811 | DIODE, ISOLATION JA | FAILS OPEN |
| | 5814 | DIODE, ISOLATION ZA | FAILS CPER |
| V35-6-2903-1 | | DIODE, ISOLATION 34 | FAILS OPEN |
| 05-0-2903-1 | | DIODE, ISOLATION 3A | FAILS OPEN |
| 05-6-2903-1 | 5817 | DIODE, ISOLATION 3A | FAILS UPEN |
| 05-6-2903-1 | 5822 | DIODE, ISOLATION 3A | FAILS OPEN |
| 05-6-2903-1 | 5823 | DIODE, ISOLATION JA | FAILS OPEN |
| 95-6-19 <u>0</u> 3-1 | | DIODE, ISOLATION JA | FAILS OPEN |
| | | • | the second section of the second of the seco |

APPENDIX D POTENTIAL CRITICAL ITEMS

| NASA FMEA | MDAC-ID | ITEM | FAILURE MODE |
|--|--|---|---|
| 05-6-2903-2 05-6-2903-2 05-6-2903-2 05-6-2903-2 05-6-2903-2 05-6-2903-2 05-6-2903-2 05-6-2903-2 05-6-2903-2 05-6-8-2004-1 05-6EB-2004-1 05-6EB-2004-1 05-6EB-2004-1 05-6EB-2004-1 05-6EB-2004-1 05-6EB-2004-1 05-6EB-2004-1 05-6EB-2004-1 05-6EB-2004-1 05-6EB-2004-2 05-6EB-2004-2 05-6EB-2004-2 05-6EB-2004-2 05-6EB-2004-2 05-6EB-2004-2 05-6EB-2004-2 05-6EB-2004-2 05-6EB-2004-2 05-6EB-2004-2 05-6EB-2004-2 | 5812 5813 5816 5817 5820 5821 5824 5825 5980 5982 5984 5986 6160 6163 6163 6163 6163 6163 | DIODE, ISOLATION 3A DIODE, ISOLATION 3A DIODE, ISOLATION 3A DIODE, ISOLATION 3A DIODE, ISOLATION 3A DIODE, ISOLATION 3A DIODE, ISOLATION 3A DIODE, ISOLATION 3A DIODE, ISOLATION 3A RELAY TO PLBD AC1 RELAY TO PLBD AC1 RELAY TO PLBD AC1 RELAY TO PLBD AC2 RELAY TO PLBD AC2 RELAY TO PLBD AC2 RELAY TO PLBD AC2 RELAY TO PLBD AC2 RELAY TO PLBD AC3 RELAY TO PLBD AC3 RELAY TO PLBD AC3 RELAY TO PLBD AC3 RELAY TO PLBD AC3 RELAY TO PLBD AC3 | SHORTS SHORTS SHORTS SHORTS SHORTS SHORTS SHORTS SHORTS SHORTS SHORTS SHORTS SHORTS FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS OPEN FAILS CLOSED FAILS CLOSED FAILS CLOSED FAILS CLOSED FAILS CLOSED FAILS CLOSED FAILS CLOSED FAILS CLOSED |
| 05-6EB-2004-2 05-6EB-2004-2 05-6EB-2004-2 | 6337 6339 6341 | RELAY TO PLBD AC3 RELAY TO PLBD AC3 RELAY TO PLBD AC3 RELAY TO PLBD AC3 | FAILS CLOSED FAILS CLOSED FAILS CLOSED FAILS CLOSED |

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APPENDIX E DETAILED ANALYSIS

This appendix contains the IOA analysis worksheets supplementing previous results reported in STSEOS Working Paper 1.0-WP-VA86001-28, Analysis of the Electrical Power Distribution and Control Subsystem, (3 April 1987). Prior results were obtained independently and documented before starting the FMEA/CIL assessment activity. Supplemental analysis was performed to address failure modes not previously considered by the IOA. Each sheet identifies the hardware item being analyzed, parent assembly and function performed. For each failure mode possible causes are identified, and hardware and functional criticality for each mission phase are determined as described in NSTS 22206, Instructions for Preparation of FMEA and CIL, 10 October 1986. Failure mode effects are described at the bottom of each sheet and worst case criticality is identified at the top.

LEGEND FOR IOA ANALYSIS WORKSHEETS

Hardware Criticalities:

- 1 = Loss of life or vehicle
- = Loss of mission or next failure of any redundant item 2 (like or unlike) could cause loss of life/vehicle
- = All others

Functional Criticalities:

- 1R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of life or vehicle.
- 2R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of mission.

Redundancy Screen A:

- 1 = Is Checked Out PreFlight
- = Is Capable of Check Out PreFlight = Not Capable of Check Out PreFlight
- NA = Not Applicable

Redundancy Screens B and C:

- p = Passed Screen
- = Failed Screen F
- NA = Not Applicable

INDEPENDENT ORBITER ASSESSMENT ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: EPD&C FLIGHT: 3/3 MDAC ID: 6671 ABORT: 3/3 ITEM: PREFLIGHT TEST CIRCUIT - RMS JETTISON CONTROL/POWER FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: PREFLIGHT TEST CIRCUIT - RMS JETTISON CONTROL/POWER 2) 3) 4) 5) 6) 7) 8) 9) 05-6

CRITICALITIES

| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
|-----------------|----------|-------|----------|
| PRELAUNCH: | . 3/3 | RTLS: | 3/3 |
| LIFTOFF: | 3/3 | TAL: | 3/3 |
| ONORBIT: | 3/3 | AOA: | 3/3 |
| DEORBIT: | 3/3 | ATO: | 3/3 |
| LANDING/SAFING: | 3/3 | | 3, 3 |

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, PIECE-PART STRUCTURAL FAILURE, VIBRATION, THERMAL SHOCK

EFFECTS/RATIONALE:

WORST CASE FAILURE (AFTER MULTIPLE FAILURES) WOULD CAUSE THE RESISTANCE TEST BUS TO BE POWERED. THIS WOULD HAVE NO EFFECT ON CREW/MISSION/VEHICLE.

REFERENCES:

INDEPENDENT ORBITER ASSESSMENT ORBITER SUBSYSTEM ANALYSIS WORKSHEET

HIGHEST CRITICALITY HDW/FUNC DATE:

FLIGHT: 3/1R ABORT: 3/1R SUBSYSTEM: EPD&C MDAC ID: 6672

ABORT MODE CONTROL/PWR CIRCUIT ITEM:

FAILURE MODE: ALL CREDIBLE MODES

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

ABORT MODE CONTROL/PWR CIRCUIT 1)

2)

3)

4)

5) 6)

7)

8) 05-6 9)

CRITICALITIES

| PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: | HDW/FUNC 3/3 3/1R 3/3 3/3 | ABORT RTLS: TAL: AOA: ATO: | HDW/FUNC 3/1R 3/1R 3/1R 3/1R |
|---------------------------------------|---------------------------------------|--|--|
| DEORBIT: LANDING/SAFING: | - / | ATO: | 3/1R |

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, PIECE-PART STRUCTURAL FAILURE, VIBRATION, THERMAL SHOCK

EFFECTS/RATIONALE:

NASA HAS REMOVED THE ABORT MODE ROTARY SWITCH AND THE ABORT PUSHBUTTON AND COVERED THESE ITEMS IN FMEAS 05-6-2659 AND 05-6-2660, RESPECTIVELY. THE REST OF THE CIRCUIT FAILURES ARE CONSIDERED NON-CRITICAL OR DETECTABLE.

REFERENCES:

INDEPENDENT ORBITER ASSESSMENT ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: EPD&C FLIGHT: 3/3 MDAC ID: 6673 ABORT: 3/3 OPERATIONAL STATUS MEASUREMENT CIRCUIT - FWD MCA 1 ITEM: FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) OPERATIONAL STATUS MEASUREMENT CIRCUIT - FWD MCA 1 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CDTTTCXITTTC

| | CKITICM | TITIES | |
|-----------------|----------|--------|----------|
| | HDW/FUNC | ABORT | HDW/FUNC |
| PRELAUNCH: | 3/3 | RTLS: | 3/3 |
| LIFTOFF: | 3/3 | TAL: | 3/3 |
| ONORBIT: | 3/3 | AOA: | 3/3 |
| DEORBIT: | 3/3 | ATO: | 3/3 |
| LANDING/SAFING: | 3/3 | | -, - |

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD CAUSE LOSS OF SINGLE STRING MEASUREMENT CIRCUIT. THESE ARE NON-CRITICAL MEASUREMENTS AND THEIR LOSS IS ONLY DETECTABLE FROM THE GROUND. ALTERNATE MEASUREMENTS ARE AVAILABLE TO THE CREW.

REFERENCES:

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 3/3 SUBSYSTEM: EPD&C 3/3 ABORT: MDAC ID: 6674 OPERATIONAL STATUS MEASUREMENT CIRCUIT - FWD MCA 2 ITEM: FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) OPERATIONAL STATUS MEASUREMENT CIRCUIT - FWD MCA 2 2) 3) 4) 5) 6)

CRITICALITIES

| | CKITICA | TITITIO | |
|---|--------------------------------------|----------------------------|--------------------------------------|
| FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING: | HDW/FUNC 3/3 3/3 3/3 3/3 | ABORT RTLS: TAL: AOA: ATO: | HDW/FUNC 3/3 3/3 3/3 3/3 |
| , | | | |

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PART NUMBER:

7) 8)

9) 05-6

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD CAUSE LOSS OF SINGLE STRING MEASUREMENT CIRCUIT. THESE ARE NON-CRITICAL MEASUREMENTS AND THEIR LOSS IS ONLY DETECTABLE FROM THE GROUND. ALTERNATE MEASUREMENTS ARE AVAILABLE TO THE CREW.

DATE: HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: EPD&C FLIGHT: 3/3 MDAC ID: 6675 ABORT: 3/3 ITEM: OPERATIONAL STATUS MEASUREMENT CIRCUIT - FWD MCA 3 FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) OPERATIONAL STATUS MEASUREMENT CIRCUIT - FWD MCA 3 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES HDW/FUNC ABORT HDW/FUNC

3/3 RTLS: 3/3

3/3 TAL: 3/3

3/3 AOA: 3/3 FLIGHT PHASE PRELAUNCH: LIFTOFF:

AOA: ATO:

3/3

3/3

REDUNDANCY SCREENS: A [] B [] C []

3/3

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

ONORBIT: DEORBIT:

LANDING/SAFING: 3/3

FIRST FAILURE WOULD CAUSE LOSS OF SINGLE STRING MEASUREMENT CIRCUIT. THESE ARE NON-CRITICAL MEASUREMENTS AND THEIR LOSS IS ONLY DETECTABLE FROM THE GROUND. ALTERNATE MEASUREMENTS ARE AVAILABLE TO THE CREW.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 3/3 SUBSYSTEM: EPD&C 3/3 ABORT: MDAC ID: 6676 OPERATIONAL STATUS MEASUREMENT CIRCUIT - MID MCA 1 ITEM: FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) OPERATIONAL STATUS MEASUREMENT CIRCUIT - MID MCA 1 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CRITTCALITIES

| | CVTITCU | THITID | |
|---------------------------------------|--------------------------------------|----------------------------|--------------------------------------|
| PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: | HDW/FUNC 3/3 3/3 3/3 3/3 | ABORT RTLS: TAL: AOA: ATO: | HDW/FUNC 3/3 3/3 3/3 3/3 |
| LANDING/SAFING: | 3/3 | | |

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD CAUSE LOSS OF SINGLE STRING MEASUREMENT CIRCUIT. THESE ARE NON-CRITICAL MEASUREMENTS AND THEIR LOSS IS ONLY DETECTABLE FROM THE GROUND. ALTERNATE MEASUREMENTS ARE AVAILABLE TO THE CREW.

DATE: HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: EPD&C FLIGHT: 3/3 MDAC ID: 6677 ABORT: 3/3 ITEM: OPERATIONAL STATUS MEASUREMENT CIRCUIT - MID MCA 2 FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) OPERATIONAL STATUS MEASUREMENT CIRCUIT - MID MCA 2 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC PRELAUNCH: 3/3 RTLS: 3/3 LIFTOFF: 3/3 TAL: 3/3 ONORBIT: 3/3 AOA: 3/3

ATO:

3/3

REDUNDANCY SCREENS: A [] B [] C []

3/3

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

DEORBIT:

LANDING/SAFING: 3/3

FIRST FAILURE WOULD CAUSE LOSS OF SINGLE STRING MEASUREMENT CIRCUIT. THESE ARE NON-CRITICAL MEASUREMENTS AND THEIR LOSS IS ONLY DETECTABLE FROM THE GROUND. ALTERNATE MEASUREMENTS ARE AVAILABLE TO THE CREW.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 3/3 SUBSYSTEM: EPD&C 3/3 ABORT: MDAC ID: 6678 OPERATIONAL STATUS MEASUREMENT CIRCUIT - MID MCA 3 ITEM: FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) OPERATIONAL STATUS MEASUREMENT CIRCUIT - MID MCA 3 2) 3) 4) 5) 6) 7) 8) 9) 05-6

| | CRITICALITIES | | |
|---|---|----------------------------|--------------------------------------|
| FLIGHT PHASE IF PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING: | HDW/FUNC 3/3 3/3 3/3 3/3 3/3 | ABORT RTLS: TAL: AOA: ATO: | HDW/FUNC 3/3 3/3 3/3 3/3 |

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD CAUSE LOSS OF SINGLE STRING MEASUREMENT CIRCUIT. THESE ARE NON-CRITICAL MEASUREMENTS AND THEIR LOSS IS ONLY DETECTABLE FROM THE GROUND. ALTERNATE MEASUREMENTS ARE AVAILABLE TO THE CREW.

DATE: HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: EPD&C FLIGHT: 3/3 MDAC ID: 6679 ABORT: 3/3 ITEM: OPERATIONAL STATUS MEASUREMENT CIRCUIT - MID MCA 4 FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) OPERATIONAL STATUS MEASUREMENT CIRCUIT - MID MCA 4 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC PRELAUNCH: 3/3 RTLS: 3/3 LIFTOFF: 3/3 TAL: 3/3 ONORBIT: 3/3 AOA: 3/3

ATO:

3/3

REDUNDANCY SCREENS: A [] B [] C []

LANDING/SAFING: 3/3

3/3

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

DEORBIT:

FIRST FAILURE WOULD CAUSE LOSS OF SINGLE STRING MEASUREMENT CIRCUIT. THESE ARE NON-CRITICAL MEASUREMENTS AND THEIR LOSS IS ONLY DETECTABLE FROM THE GROUND. ALTERNATE MEASUREMENTS ARE AVAILABLE TO THE CREW.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 3/3 SUBSYSTEM: EPD&C 3/3 ABORT: MDAC ID: 6680 OPERATIONAL STATUS MEASUREMENT CIRCUIT - AFT MCA 1 ITEM: FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: OPERATIONAL STATUS MEASUREMENT CIRCUIT - AFT MCA 1 2) 3) 4) 5) 6) 7) 8) 05-6 CRITICALITIES FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC
PRELAUNCH: 3/3 RTLS: 3/3
LIFTOFF: 3/3 TAL: 3/3
ONORBIT: 3/3 AOA: 3/3
DEORBIT: 3/3 ATO: 3/3 LANDING/SAFING: 3/3 REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD CAUSE LOSS OF SINGLE STRING MEASUREMENT CIRCUIT. THESE ARE NON-CRITICAL MEASUREMENTS AND THEIR LOSS IS ONLY DETECTABLE FROM THE GROUND. ALTERNATE MEASUREMENTS ARE AVAILABLE TO THE CREW.

| DATE: SUBSYSTEM: EPD&C MDAC ID: 6681 | HIGHEST CRITICALITY HDW/FUNC FLIGHT: 3/3 ABORT: 3/3 |
|--|--|
| ITEM: OPERAT FAILURE MODE: ALL CF | CIONAL STATUS MEASUREMENT CIRCUIT - AFT MCA 2 REDIBLE MODES |
| LEAD ANALYST: K. SCHM | ECKPEPER SUBSYS LEAD: K. SCHMECKPEPER |
| BREAKDOWN HIERARCHY: | |
| 1) OPERATIONAL STAT 2) 3) 4) 5) 6) 7) 8) 9) 05-6 | US MEASUREMENT CIRCUIT - AFT MCA 2 |
| • | |
| | CRITICALITIES |
| FLIGHT PHASE | HDW/FUNC ABORT HDW/FUNC |
| PRELAUNCH: | 3/3 RTLS: 3/3 |
| LIFTOFF: | 3/3 TAL: 3/3· |
| ONORBIT: | 3/3 AOA: 3/3 |
| DEORBIT: | 3/3 ATO: 3/3 |
| LANDING/SAFING | : 3/3 |
| REDUNDANCY SCREENS: | A[] B[] C[:] |

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD CAUSE LOSS OF SINGLE STRING MEASUREMENT CIRCUIT. THESE ARE NON-CRITICAL MEASUREMENTS AND THEIR LOSS IS ONLY DETECTABLE FROM THE GROUND. ALTERNATE MEASUREMENTS ARE AVAILABLE TO THE CREW.

HIGHEST CRITICALITY HDW/FUNC DATE: 3/3 FLIGHT: SUBSYSTEM: EPD&C 3/3 ABORT: MDAC ID: 6682 OPERATIONAL STATUS MEASUREMENT CIRCUIT - AFT MCA 3 ITEM: FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) OPERATIONAL STATUS MEASUREMENT CIRCUIT - AFT MCA 3 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CRITTCALITTES

| | TITITES | | |
|--|---|----------------------------|--------------------------------------|
| FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: | HDW/FUNC 3/3 3/3 3/3 3/3 3/3 | ABORT RTLS: TAL: AOA: ATO: | HDW/FUNC 3/3 3/3 3/3 3/3 |
| LANDING/SAFING: | : 3/3 | | |

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD CAUSE LOSS OF SINGLE STRING MEASUREMENT CIRCUIT. THESE ARE NON-CRITICAL MEASUREMENTS AND THEIR LOSS IS ONLY DETECTABLE FROM THE GROUND. ALTERNATE MEASUREMENTS ARE AVAILABLE TO THE CREW.

DATE: HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: EPD&C FLIGHT: 2/1R MDAC ID: 6683 ABORT: 1/1

ITEM: BUS, MAIN DC A FAILURE MODE: LOSS OF OUTPUT

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) BUS, MAIN DC A
- 2)
- 3)
- 4)
- 5) 6)
- 7)
- 8) 9) 05-6

CRITICALITIES

| HDW/FUNC | ABORT | HDW/FUNC |
|----------|-----------------------------|--|
| 3/3 | RTLS: | 1/1 |
| 2/1R | TAL: | 1/1 |
| 3/1R | AOA: | 2/1R |
| 2/1R | ATO: | 2/1R |
| 3/3 | | -/ |
| | 3/3 2/1R 3/1R 2/1R | 3/3 RTLS: 2/1R TAL: 3/1R AOA: 2/1R ATO: |

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: 40V76A31

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE HAS NO EFFECT EXCEPT DURING INTACT ABORT PRIOR TO OMS/RCS INTERCONNECT, WHICH WOULD LEAVE THE RCS TANK ISOLATION VALVE OPEN DURING PROPELLANT DUMP. ALSO WOULD CAUSE LOSS OF POWER TO HELIUM BLOWDOWN VALVES WHICH WOULD PREVENT PURGING OF AFT

FUSELAGE DURING AN RTLS OR TAL AND CREATING A POSSIBLE FIRE/EXPLOSION HAZARD DURING ENTRY. NOMINAL MISSION CRIT IS 1R2 WITH THE SECOND FAILURE (LOSS OF ANOTHER MAIN DC BUS OR FUEL CELL/MAIN BUS CONTACTOR) CAUSING AN UNDERVOLTAGE TO CRITICAL LOADS.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 1/1 ABORT: 1/1 SUBSYSTEM: EPD&C MDAC ID: 6684 BUS, MAIN DC B ITEM: FAILURE MODE: LOSS OF OUTPUT LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) BUS, MAIN DC B 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES

FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC
PRELAUNCH: 3/3 RTLS: 1/1
LIFTOFF: 1/1 TAL: 1/1
ONORBIT: 3/1R AOA: 2/1R
DEORBIT: 2/1R ATO: 2/1R CRITICALITIES

LANDING/SAFING: 3/3

REDUNDANCY SCREENS: A [:] B [] C []

LOCATION: 40V76A32

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK,

PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD CAUSE LOSS OF POWER TO ET TUMBLE CIRCUITRY WHICH COULD CAUSE LOSS OF LIFE UPON ET IMPACT.

DATE: HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: EPD&C FLIGHT: 2/1R MDAC ID: 6685 ABORT: 1/1

ITEM: BUS, MAIN DC C FAILURE MODE: LOSS OF OUTPUT

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) BUS, MAIN DC C
- 2)
- 3)
- 4)
- 5) 6)
- 7)
- 8) 9) 05-6

CRITICALITIES

| · | | | |
|-----------------|----------|-------|----------|
| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
| PRELAUNCH: | 3/3 | RTLS: | 1/1 |
| LIFTOFF: | 2/1R | TAL: | 1/1 |
| ONORBIT: | 3/1R | AOA: | 2/1R |
| DEORBIT: | 2/1R | ATO: | 2/1R |
| LANDING/SAFING: | 3/3 | | 2/ III |

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: 40V76A33

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE HAS NO EFFECT EXCEPT DURING INTACT ABORT PRIOR TO OMS/RCS INTERCONNECT, WHICH WOULD LEAVE THE RCS TANK ISOLATION VALVE OPEN DURING PROPELLANT DUMP. ALSO WOULD CAUSE LOSS OF POWER TO HELIUM BLOWDOWN VALVES WHICH WOULD PREVENT PURGING OF AFT

FUSELAGE DURING AN RTLS OR TAL AND CREATING A POSSIBLE FIRE/EXPLOSION HAZARD DURING ENTRY. NOMINAL MISSION CRIT IS 1R2 WITH THE SECOND FAILURE (LOSS OF ANOTHER MAIN DC BUS OR FUEL CELL/MAIN BUS CONTACTOR) CAUSING AN UNDERVOLTAGE TO CRITICAL LOADS.

DATE:

HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: EPD&C

FLIGHT: 2/1R ABORT: 2/1R

MDAC ID: 6686

ITEM:

ESSENTIAL BUSSSES

FAILURE MODE: LOSS OF POWER

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) ESSENTIAL BUSSES
- 2)
- 3)
- 4)
- 5) 6)
- 7)
- 8)
- 9) 05-6

CRITICALITIES

| | CKTITCU | 111111 | |
|--|--|--|--|
| FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING: | HDW/FUNC 3/3 2/1R 2/1R 2/1R 3/3 | ABORT RTLS: TAL: AOA: ATO: | HDW/FUNC 2/1R 2/1R 2/1R 2/1R |
| | | | |

ANDING/SAFING: 3/3

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: 40V76A31, 32, 33

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

LOSS OF ONE ESSENTIAL BUS CAUSES THE LOSS OF CONTROL AND COOLING OF ONE FUEL CELL. IF THE FUEL CELL CANNOT BE DISCONNECTED FROM THE MAIN DC BUS, THE RESULTANT LOAD WILL CAUSE THE FUEL CELL TO OVERHEAT AND THEN EXPLODE.

DATE: HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: EPD&C

FLIGHT: 2/1R ABORT: 2/1R MDAC ID: 6687

ITEM: AC BUS 1,2,3 FAILURE MODE: ONE PHASE SHORTS

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) AC BUS 1,2,3
- 2)
- 3)
- 4)
- 5)
- 6) 7)
- 8)
- 9) 05-6

CRITTCALTTTES

| | CKTITCALLIES | | |
|-----------------|--------------|-------|----------|
| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
| PRELAUNCH: | 3/3 | RTLS: | 2/1R |
| LIFTOFF: | 2/1R | TAL: | 2/1R |
| ONORBIT: | 2/1R | AOA: | 2/1R |
| DEORBIT: | 2/1R | ATO: | 2/1R |
| LANDING/SAFING: | 3/3 | | , |

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: 81V76A35, 36, 37

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE COULD CAUSE LOSS OF ONE AC BUS, IF SENSOR SWITCH IS IN "AUTO". SECOND FAILURE OF ANOTHER AC BUS WOULD CAUSE LOSS OF CRITICAL LOADS AND POSSIBLE LOSS OF CREW/VEHICLE.

DATE: HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: EPD&C FLIGHT: 3/1R MDAC ID: 6688 ABORT: 3/1R

ITEM: AC BUS 1,2,3

FAILURE MODE: LOSS OF OUTPUT ON ONE PHASE

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

1) AC BUS 1,2,3

2)

ξ.

3)

4)

5)

6)

7) 8)

9) 05-6

CRITICALITIES

| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
|-----------------|----------|-------|----------|
| PRELAUNCH: | 3/3 | RTLS: | 3/1R |
| LIFTOFF: | 3/1R | TAL: | 3/1R |
| | • | AOA: | 3/1R |
| ONORBIT: | 3/1R | ATO: | 3/1R |
| DEORBIT: | 3/1R | AIO. | J/ 110 |
| LANDING/SAFING: | 3/3 | | |

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: 81V76A35, 36, 37

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK,

PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:
FIRST FAILURE WOULD CAUSE DEGRADATION OF POWER TO AC MOTORS.
LOSS OF ALL REDUNDANCY WOULD CAUSE POSSIBLE LOSS OF CREW/VEHICLE
DUE TO LOSS OF POWER TO CRITICAL LOADS (I.E. PAYLOAD BAY DOORS,

ET UMBILICAL DOOR).

DATE:

HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: EPD&C MDAC ID: 6689

FLIGHT: 3/2R ABORT:

3/3

ITEM:

EMU POWER SUPPLY/CHARGER CIRCUIT

FAILURE MODE: ALL CREDIBLE MODES

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) EMU POWER SUPPLY/CHARGER CIRCUIT
- 2)
- 3)
- 4) 5)
- 6)
- 7)
- 8)
- 9) 05-6

CRITICALITIES

| HDW/FUNC | ABORT | HDW/FUNC |
|----------|---------------------------|--|
| 3/3 | RTLS: | 3/3 |
| 3/3 | TAL: | 3/3 |
| 3/2R | AOA: | 3/3 |
| 3/3 | ATO: | 3/3 |
| 3/3 | | -, - |
| | 3/3 3/3 3/2R 3/3 | 3/3 RTLS: 3/3 TAL: 3/2R AOA: 3/3 ATO: |

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION:

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD REQUIRE THAT BOTH EMU BATTERIES WOULD HAVE TO BE CHARGED FROM THE REMAINING CHARGING CIRCUIT. LOSS OF SECOND CHARGING CIRCUIT MAY CAUSE LOSS OF MISSION IF ANOTHER EVA WERE REQUIRED.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 3/3 ABORT: 3/3 SUBSYSTEM: EPD&C MDAC ID: 6690 ITEM: PAYLOAD POWER MONITORING CIRCUIT FAILURE MODE: ALL CREDIBLE MODES LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) PAYLOAD POWER MONITORING CIRCUIT 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES

| | CRITICA | TTITES | |
|---|---|--|--------------------------------------|
| FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING | HDW/FUNC 3/3 3/3 3/3 3/3 3/3 | ABORT RTLS: TAL: AOA: ATO: | HDW/FUNC 3/3 3/3 3/3 3/3 |
| | | | |

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE: THIS IS A NON-CRITICAL MEASUREMENT CIRCUIT. ALTERNATE MEANS OF PAYLOAD POWER STATUS ARE AVAILABLE TO THE CREW.

DATE: HIGHEST CRITICALITY HDW/FUNC Σ.

SUBSYSTEM: EPD&C FLIGHT: 2/1R MDAC ID: 6691 ABORT: 2/1R

BUS, CONTROL AB1, AB2, AB3, BC1, BC2, BC3, CA1, ITEM:

CA2, CA3

FAILURE MODE: LOSS OF POWER

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) BUS, CONTROL AB1, AB2, AB3, BC1, BC2, BC3, CA1, CA2, CA3
- 2)
- 3)
- 4)
- 5)
- 6) 7)
- 8)
- 9) 05-6

CRITICALITIES

| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
|-----------------|----------|-------|----------|
| PRELAUNCH: | 3/3 | RTLS: | 2/1R |
| LIFTOFF: | 2/1R | TAL: | 2/1R |
| ONORBIT: | 3/1R | AOA: | 2/1R |
| DEORBIT: | 3/1R | ATO: | 2/1R |
| LANDING/SAFING: | | | 2/11(|

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD HAVE NO EFFECT ON CREW/MISSION/VEHICLE. LOSS OF A SECOND CONTROL BUS COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CONTROL/POWER CRITICAL LOADS.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 3/3 ABORT: 3/3 SUBSYSTEM: EPD&C MDAC ID: 6692

SWITCH, TOGGLE PAYLOAD SAFING ITEM:

FAILURE MODE: ALL CREDIBLE MODES

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) PAYLOAD SAFING SWITCH
- 2)
- 3) 4)
- 5)
- 6)
- 7) 8)
- 9) 05-6

CRITICALITIES

| FLIGHT PHASE H PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING: | DW/FUNC 3/3 3/3 3/3 3/3 3/3 | ABORT RTLS: TAL: AOA: ATO: | HDW/FUNC 3/3 3/3 3/3 3/3 |
|--|--|----------------------------|--------------------------------------|
| LANDING/SAFING: | 3/3 | | |

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: 35V73A3A5S1

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

THIS IS A MISSION DEPENDENT SWITCH. ACCORDING TO NASA, IT HAS NEVER BEEN USED AND A FMEA WILL BE WRITTEN WHEN A SPECIFIC USE FOR IT IS NEEDED.

DATE: HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: EPD&C FLIGHT: 3/1R MDAC ID: 6693 ABORT: 3/1R

ITEM: RESISTOR, 1.2K 2W (TO MEC #1)

FAILURE MODE: FAILS OPEN

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) 2)
- 017 PANEL
- 3) RESISTOR, 1.2K 2W (TO MEC #1)
- 4) 5)
- 6)
- 7)
- 8) 05-6 9)

CRITICALITIES

| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
|-----------------|----------|-------|----------|
| PRELAUNCH: | 3/3 | RTLS: | 3/1R |
| LIFTOFF: | 3/1R | TAL: | 3/1R |
| ONORBIT: | 3/3 | AOA: | 3/1R |
| DEORBIT: | 3/3 | ATO: | 3/1R |
| LANDING/SAFING: | 3/3 | | -, |

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: 33V73A17A8R3

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

THIS FAILURE WOULD CAUSE THE LOSS OF REDUNDANT POWER TO ONE MEC. THE LOSS OF ALL POWER TO BOTH MECS COULD CAUSE LOSS OF VEHICLE/CREW DUE TO INABILITY TO SEPERATE THE ET AND SRBS.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 3/1R ABORT: 3/1R SUBSYSTEM: EPD&C MDAC ID: 6694

RESISTOR, 1.2K 2W (TO MEC #2) ITEM:

FAILURE MODE: FAILS OPEN

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

1) 017 PANEL 2) RESISTOR, 1.2K 2W (TO MEC #2) 3) 4) 5) 6) 7) 8)

CRITICALITIES

| | CVTITCU | | |
|-----------------|----------|-------|----------|
| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
| PRELAUNCH: | 3/3 | RTLS: | 3/1R |
| LIFTOFF: | 3/1R | TAL: | 3/1R |
| | 3/3 | AOA: | 3/1R |
| ONORBIT: | - / - | ATO: | 3/1R |
| DEORBIT: | 3/3 | AIŲ. | 3/ 110 |
| LANDING/SAFING: | 3/3 | | |

REDUNDANCY SCREENS: A [1] B [P] : C [P]

9) 05-6

LOCATION: 33V73A17A9R3

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE: THIS FAILURE WOULD CAUSE THE LOSS OF REDUNDANT POWER TO ONE MEC. THE LOSS OF ALL POWER TO BOTH MECS COULD CAUSE LOSS OF VEHICLE/CREW DUE TO INABILITY TO SEPERATE THE ET AND SRBS.

DATE: HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: EPD&C FLIGHT: 3/3 MDAC ID: 6695 ABORT: 3/3 ITEM: RESISTOR, 1.2K 2W (TO MEC #2) FAILURE MODE: SHORTS LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) 2) 017 PANEL 3) RESISTOR, 1.2K 2W (TO MEC #2) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC PRELAUNCH: 3/3 RTLS: 3/3 LIFTOFF: 3/3 TAL: 3/3 ONORBIT: 3/3 AOA: 3/3 3/3 3/3 3/3 3/3 3/3 DEORBIT: ATO: 3/3 LANDING/SAFING: 3/3 REDUNDANCY SCREENS: A [] :B [] C [] LOCATION: 33V73A17A9R3

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK,

PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

THIS FAILURE WOULD HAVE NO EFFECT.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 3/3 ABORT: 3/3 SUBSYSTEM: EPD&C MDAC ID: 6696 RESISTOR, 1.2K 2W (TO MEC #1) ITEM: FAILURE MODE: SHORTS LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) 2) 017 PANEL 3) RESISTOR, 1.2K 2W (TO MEC #2) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC RTLS: 3/3
TAL: 3/3
AOA: 3/3
ATO: 3/3 PRELAUNCH: 3/3 3/3 LIFTOFF: 3/3 ONORBIT: DEORBIT: 3/3 LANDING/SAFING: 3/3 REDUNDANCY SCREENS: A [] B [] C [] LOCATION: 33V73A17A8R3 PART NUMBER: CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK,

PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

THIS FAILURE WOULD HAVE NO EFFECT.

DATE: HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: EPD&C FLIGHT: 2/1R MDAC ID: 6697 ABORT: 2/1R CONTROLLER, PYRO INITIATOR - ET/ORB FORWARD ATTACH ITEM: RELEASE FAILURE MODE: LOSS OF OUTPUT LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) CONTROLLER, PYRO INITIATOR - ET/ORB FORWARD ATTACH RELEASE 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES F

| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
|-----------------|----------|-------|----------|
| PRELAUNCH: | 3/3 | RTLS: | 2/1R |
| LIFTOFF: | 2/1R | TAL: | 2/1R |
| ONORBIT: | 3/3 | AOA: | 2/1R |
| DEORBIT: | 3/3 | ATO: | 2/1R |
| LANDING/SAFING: | 3/3 | | -/ |

REDUNDANCY SCREENS: A [1] B [F] C [P]

LOCATION: 81V76A16PIC(A), 82V76A17PIC(B)
PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

SEE REMARKS UNDER ASSESSMENT ID EPD&C-6697.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT:
ABORT: 1/1 SUBSYSTEM: EPD&C 2/1R MDAC ID: 6698 CONTROLLER, PYRO INITIATOR - ET/ORB FORWARD ATTACH ITEM: RELEASE FAILURE MODE: PREMATURE OUTPUT LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) CONTROLLER, PYRO INITIATOR - ET/ORB FORWARD ATTACH RELEASE 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC
PRELAUNCH: 3/3 RTLS: 2/1R
LIFTOFF: 1/1 TAL: 2/1R
ONORBIT: 3/3 AOA: 2/1R
DEORBIT: 3/3 ATO: 2/1R ONORBIT: 3/3 DEORBIT: 3/3 LANDING/SAFING: 3/3 REDUNDANCY SCREENS: A [] B [] C [] LOCATION: 81V76A16PIC(A), 82V76A17PIC(B) PART NUMBER: CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

REFERENCES:

EFFECTS/RATIONALE:

SEE REMARKS UNDER ASSESSMENT ID EPD&C-6698.

DATE:

5.

HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: EPD&C

FLIGHT:

2/1R

ITEM:

MDAC ID: 6699

ABORT:

2/1R

CONTROLLER, PYRO INITIATOR - RIGHT/LEFT ET/ORB AFT

ATTACH RELEASE

FAILURE MODE: LOSS OF OUTPUT

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) CONTROLLER, PYRO INITIATOR RIGHT/LEFT ET/ORB AFT ATTACH RELEASE
- '2)
- 3)
- 4)
- 5)
- 6)
- 7) 8)
- 9) 05-6

CRITICALITIES

| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
|-----------------|----------|-------|----------|
| PRELAUNCH: | 3/3 | RTLS: | 2/1R |
| LIFTOFF: | 2/1R | TAL: | 2/1R |
| ONORBIT: | 3/3 | AOA: | 2/1R |
| DEORBIT: | 3/3 | ATO: | 2/1R |
| LANDING/SAFING: | 3/3 | | -/ |

REDUNDANCY SCREENS: A [1] B [F] C [P]

LOCATION: 54V76A13PIC7, 8, 55V76A14PIC7, 8

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

SEE REMARKS UNDER ASSESSMENT ID EPD&C-6699.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 1/1 ABORT: 2/1F SUBSYSTEM: EPD&C 2/1R MDAC ID: 6700 CONTROLLER, PYRO INITIATOR - RIGHT/LEFT ET/ORB AFT ITEM: ATTACH RELEASE FAILURE MODE: PREMATURE OUTPUT LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) CONTROLLER, PYRO INITIATOR - RIGHT/LEFT ET/ORB AFT ATTACH RELEASE 2) 3) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES

FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC
PRELAUNCH: 3/3 RTLS: 2/1R
LIFTOFF: 1/1 TAL: 2/1R
ONORBIT: 3/3 AOA: 2/1R
DECORPT: 3/3 ATO: 2/1R DEORBIT: LANDING/SAFING: 3/3 REDUNDANCY SCREENS: A [] B ['] C []

LOCATION: 54V76A13PIC7, 8, 55V76A14PIC7, 8

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK,

PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

SEE REMARKS UNDER ASSESSMENT ID EPD&C-6700.

DATE: HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: EPD&C FLIGHT: 2/1R MDAC ID: 6701 ABORT: 2/1R

ITEM: CONTROLLER, PYRO INITIATOR - RIGHT/LEFT ET/ORB

UMBILICAL ATTACH RELEASE 1,2,3 FAILURE MODE: LOSS OF OUTPUT

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) CONTROLLER, PYRO INITIATOR RIGHT/LEFT ET/ORB UMBILICAL ATTACH RELEASE 1,2,3
 - 2)
 - 3)
 - 4)
 - 5) 6)
 - 7)
 - 8) 9) 05-6

CRITICALITIES

| | CITTICA | ハカエナエたの | |
|-----------------|----------|---------|----------|
| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
| PRELAUNCH: | 3/3 | RTLS: | 2/1R |
| LIFTOFF: | 2/1R | TAL: | 2/1R |
| ONORBIT: | 3/3 | AOA: | 2/1R |
| DEORBIT: | 3/3 | ATO: | 2/1R |
| LANDING/SAFING: | 3/3 | | -/ |

REDUNDANCY SCREENS: A [1] B [F] C [P]

LOCATION: 54V76A13PIC1-6, 55V76A14PIC1-6

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

SEE REMARKS UNDER ASSESSMENT ID EPD&C-6701.

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 2/1R ABORT: 2/1R SUBSYSTEM: EPD&C MDAC ID: 6702

CONTROLLER, PYRO INITIATOR - RIGHT/LEFT ET/ORB ITEM:

UMBILICAL ATTACH RELEASE 1,2,3 FAILURE MODE: PREMATURE OUTPUT

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

1) CONTROLLER, PYRO INITIATOR - RIGHT/LEFT ET/ORB UMBILICAL ATTACH RELEASE 1,2,3

- 3)
- 4)
- 5) 6)
- 7)
- 8)
- 9) 05-6

CRITICALITIES

| ABORT RTLS: TAL: AOA: ATO: | HDW/FUNC 2/1R 2/1R 2/1R 2/1R |
|----------------------------|--|
| | RTLS: TAL: AOA: |

REDUNDANCY SCREENS: A [1] B [F] C [P]

LOCATION: 54V76A13PIC1-6, 55V76A14PIC1-6

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

SEE REMARKS UNDER ASSESSMENT ID EPD&C-6702.

DATE: HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: EPD&C FLIGHT: 1/1 MDAC ID: 6703 ABORT: 1/1 SWITCH, PUSHBUTTON, 4-POLE - ABORT INITIATE SWITCH ITEM: FAILURE MODE: FAILS CLOSED LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) ABORT MODE CONTROL CIRCUIT 2) PANEL F6A8 SWITCH, PUSHBUTTON, 4-POLE - ABORT INITIATE SWITCH 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES CRITICALITIES

HDW/FUNC ABORT HDW/FU

3/3 RTLS: 3/3

1/1 TAL: 1/1

3/3 AOA: 1/1

3/3 ATO: 1/1 FLIGHT PHASE HDW/FUNC PRELAUNCH: LIFTOFF:

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: 34V73A6A8S2

LANDING/SAFING: 3/3

ONORBIT: DEORBIT:

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

DURING AN AOA, TAL, OR ATO, THE ONBOARD SOFTWARE WOULD BE MODED TO "RTLS ABORT" AS THIS IS THE FIRST POSITION ON THE MODE SELECT SWITCH. THE SOFTWARE CANNOT BE DOWNMODED FROM THIS STATE, SO LOSS OF CREW/VEHICILE IS HIGHLY PROBABLE.

HIGHEST CRITICALITY HDW/FUNC DATE:

FLIGHT: 2/1R ABORT: 2/1R SUBSYSTEM: EPD&C MDAC ID: 6704

SWITCH, PUSHBUTTON, 4-POLE - ABORT INITIATE SWITCH ITEM:

FAILURE MODE: FAILS OPEN

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) ABORT MODE CONTROL CIRCUIT
- 2) PANEL F6A8
- SWITCH, PUSHBUTTON, 4-POLE ABORT INITIATE SWITCH
- 4) 5)
- 6)
- 7) 8)
- 9) 05-6

CRITICALITIES

| | U11223 | | |
|-----------------|----------|-------|----------|
| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
| PRELAUNCH: | 3/3 | RTLS: | 2/1R |
| LIFTOFF: | 2/1R | TAL: | 2/1R |
| | 3/3 | AOA: | 2/1R |
| ONORBIT: | • | ATO: | 2/1R |
| DEORBIT: | 3/3 | AIO. | 2/ 11 |
| LANDING/SAFING: | 3/3 | | |

REDUNDANCY SCREENS: A [1] B [NA] C [P]

LOCATION: 34V73A6A8S2

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, PIECE-PART

STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD HAVE NO EFFECT AS THE CREW COULD INITIATE AN ABORT VIA KEYBOARD ENTRY. IF THE KEYBOARD ENTRY DID NOT WORK, LOSS OF CREW/VEHICLE IS HIGHLY PROBABLE.

DATE: HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: EPD&C FLIGHT: 2/1R MDAC ID: 6705 ABORT: 2/1R

ITEM: SWITCH, ROTARY - ABORT MODE SELECT

FAILURE MODE: FAILS OPEN

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) ABORT MODE CONTROL CIRCUIT
- 2) PANEL F6A8
- 3) SWITCH, ROTARY ABORT MODE SELECT
- 4)
- 5)
- 6)
- 7) 8)
- 9) 05-6

CRITICALITIES

| | ~ | | |
|-----------------|----------|-------|------------|
| FLIGHT PHASE | HDW/FUNC | ABORT | HDW/FUNC |
| PRELAUNCH: | 3/3 | RTLS: | 2/1R |
| LIFTOFF: | 2/1R | TAL: | 2/1R |
| ONORBIT: | 3/3 | AOA: | 2/1R |
| DEORBIT: | 3/3 | ATO: | 2/1R |
| LANDING/SAFING: | 3/3 | | - / |
| | | | |

REDUNDANCY SCREENS: A [1] B [NA] C [P]

LOCATION: 34V73A6A8S1

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

FIRST FAILURE WOULD HAVE NO EFFECT AS THE CREW COULD SELECT AN ABORT MODE VIA KEYBOARD ENTRY. IF THE KEYBOARD ENTRY DID NOT WORK, LOSS OF CREW/VEHICLE IS HIGHLY PROBABLE.

HIGHEST CRITICALITY HDW/FUNC DATE:

FLIGHT: 2/1R ABORT: 2/1R SUBSYSTEM: EPD&C MDAC ID: 6706

SWITCH, ROTARY - ABORT MODE SELECT ITEM:

FAILURE MODE: FAILS CLOSED, CONTACT-TO-CONTACT SHORT

LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER

BREAKDOWN HIERARCHY:

- 1) ABORT MODE CONTROL CIRCUIT
- PANEL F6A8
- 3) SWITCH, ROTARY ABORT MODE SELECT
- 4)
- 5) 6)
- 7)
- 8) 05-6 9)

CRITICALITIES

| FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING: | HDW/FUNC 3/3 2/1R 3/3 3/3 3/3 | ABORT RTLS: TAL: AOA: ATO: | HDW/FUNC 3/3 2/1R 2/1R 2/1R |
|--|--|----------------------------|---|
| | | | |

REDUNDANCY SCREENS: A [1] B [NA] C [P]

LOCATION: 34V73A6A8S1

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, PIECE-PART

STRUCTURAL FAILURE

EFFECTS/RATIONALE: DURING AN AOA, TAL, OR ATO, TWO FAILURES ARE REQUIRED TO CAUSE LOSS OF CREW/VEHICLE, AND THAT WOULD BE TWO SETS OF CONTACTS THAT WOULD SELECT "RTLS ABORT". SOFTWARE COULD NOT BE DOWNMODED TO AOA, TAL, OR ATO.

DATE: HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: EPD&C FLIGHT: 3/3 MDAC ID: 6707 ABORT: 3/3 ITEM: RESISTOR, 5.1K 1/4W FAILURE MODE: FAILS OPEN LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) CONTROL BUSSES AB1 & CA1 2) MMCA-1 3) RESISTOR, 5.1K 1/4W (TO MDM-OF1) 4) 5) 6) 7) 8) 9) 05-6 CRITICALITIES HDW/FUNC ABORT HDW/FUNC FLIGHT PHASE RTLS: 3/3
TAL: 3/3
AOA: 3/3
ATO: 3/3 PRELAUNCH: 3/3 LIFTOFF: 3/3 ONORBIT: 3/3

REDUNDANCY SCREENS: A [] B [] C []

3/3

LOCATION:

40V76A117A1R6

LANDING/SAFING: 3/3

DEORBIT:

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

THIS FAILURE WOULD CAUSE THE LOSS OF A SWITCH SCAN MEASUREMENT THAT IS NON-CRITICAL TO FLIGHT OPERATIONS.

REFERENCES: 76BC6H

HIGHEST CRITICALITY HDW/FUNC DATE: FLIGHT: 3/3 ABORT: 3/3 SUBSYSTEM: \EPD&C MDAC ID: 6708 RESISTOR, 5.1K 1/4W ITEM: FAILURE MODE: FAILS OPEN LEAD ANALYST: K. SCHMECKPEPER SUBSYS LEAD: K. SCHMECKPEPER BREAKDOWN HIERARCHY: 1) CONTROL BUSSES AB2 & CA2 2) MMCA-3 3) RESISTOR, 5.1K 1/4W (TO MDM-OF1) 4) 5) 6) 7) 8)

CRITICALITIES

| CVIIICU | | |
|----------|--------------------------------------|---|
| HDW/FUNC | ABORT | HDW/FUNC |
| 3/3 | RTLS: | 3/3 |
| 3/3 | TAL: | 3/3 |
| • | AOA: | 3/3 |
| 3/3 | ATO: | 3/3 |
| 3/3 | | |
| | HDW/FUNC 3/3 3/3 3/3 3/3 | 3/3 RTLS: 3/3 TAL: 3/3 AOA: 3/3 ATO: |

REDUNDANCY SCREENS: A [] B [] C []

9) 05-6

LOCATION: 40V76A119A1R2

PART NUMBER:

CAUSES: CONTAMINATION, MECH SHOCK, VIBRATION, THERMAL SHOCK, PIECE-PART STRUCTURAL FAILURE

EFFECTS/RATIONALE:

THIS FAILURE WOULD CAUSE THE LOSS OF A SWITCH SCAN MEASUREMENT THAT IS NON-CRITICAL TO FLIGHT OPERATIONS.

REFERENCES: 76BC6A

| DATE: SUBSYSTEM: E MDAC ID: 6 | PD&C 709 | HIGHEST C | RITICALITY FLIGHT: ABORT: | HDW/FUNC |
|---|--|--|---------------------------------|----------|
| ITEM: DIODE, ISOLATION 35A - MEC 1 & 2 INPUT POWER FAILURE MODE: FAILS OPEN, SHORTS TO GROUND | | | | |
| LEAD ANALYST: | K. SCHMECKPEPER | SUBSYS LE | AD: K. SCHMI | ECKPEPER |
| BREAKDOWN HIE 1) 2) 3) 4) 5) 6) 7) 8) 9) 05-6 | RARCHY: | | | |
| CRITICALITIES | | | | |
| FLIGHT PHA PRELAUT LIFTOFT ONORBIT DEORBIT LANDING | ASE HDW/FUNC NCH: / F: / C: / | ABORT RTLS: TAL: AOA: ATO: | // | : |
| REDUNDANCY SCI | REENS: A [] B | [] | c [] | |
| LOCATION: CR46 PART NUMBER: | 54V76A134A2CR45, 55V76 | A135A2CR45 | 5, 56V76 A 136 | A2CR45, |
| CAUSES: CONTA PIECE-PART STR | MINATION, MECH SHOCK, CUCTURAL FAILURE | VIBRATION, | THERMAL SH | ock, |
| EFFECTS/RATION THESE COMPONEN WERE UNAVAILAB | TS WERE NOT ANALYZED B | Y THE IOA, | AS THE SCH | EMATICS |

INDEPENDENT ORBITER ASSESSMENT ORBITER SUBSYSTEM ANALYSIS WORKSHEET

| DATE: SUBSYSTEM: EPD&C MDAC ID: 6710 | | | RITICALITY FLIGHT: ABORT: | / |
|---|-----------------------------------|---------------------------------------|---------------------------------|-----------|
| FAILURE MODE: SHO | | | | |
| LEAD ANALYST: K. S | CHMECKPEPER | SUBSYS LEA | AD: K. SCHM | IECKPEPER |
| BREAKDOWN HIERARCE 1) 2) 3) 4) 5) 6) 7) 8) 9) 05-6 | Y: | | | |
| | CRITICAL | ITIES | mon (pill | N.C. |
| FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SA | / / / | ABORT RTLS TAL: AOA: ATO: | | NC |
| REDUNDANCY SCREEN | s: A [] | в[] | c [] | |
| LOCATION: 54V CR46 PART NUMBER: | 76A134A2CR45, 55V | 76A135A2CR4 | 5, 56V76 A 1 | 36A2CR45, |
| CAUSES: CONTAMIN PIECE-PART STRUCT | ATION, MECH SHOCK URAL FAILURE | , VIBRATION | I, THERMAL | SHOCK, |
| EFFECTS/RATIONALE THESE COMPONENTS WERE UNAVAILABLE. | WERE NOT ANALYZED | BY THE IO | A, AS THE S | CHEMATICS |

| | • | |
|---|---|--|
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APPENDIX F

NASA FMEA TO IOA WORKSHEET CROSS REFERENCE/RECOMMENDATIONS

This section provides a cross reference between the NASA FMEA and corresponding IOA analysis worksheet(s) included in Appendix E. Appendix F identifies: NASA FMEA Number, IOA Assessment Number, NASA criticality and redundancy screen data, and IOA recommendations.

Appendix F Legend

Code Definition

- IOA and NASA had no disagreements.
- IOA concurs with NASA after learning of fuel cell safing 1 procedures.
- IOA concurs with NASA's Screen "B".
- IOA could not assess this FMEA due to time constraints. 3
- IOA concurs with NASA IOA had correct analysis but assigned 4 the wrong criticality.
- IOA concurs with NASA after further examination of the circuit. 5
- NASA redefined the failure mode or combined it with another FMEA.
- IOA concurs with NASA because of concerns on inadvertent powering of the Pre-Flight Test busses.
- IOA concurs with NASA's Screen "A". 8
- IOA concurs with NASA after learning of alternate Bus Tie 9 procedures.
- IOA concurs with NASA's Screen "C". 10
- IOA concurs with NASA after learning of emergency functions. 11
- This component is a Test Point and/or has no connection with 12 Orbiter circuitry.
- IOA recommends that this component be added to the FMEA 13 process for completeness.
- IOA concurs with NASA as IOA did not originally consider 14 single failure bus loss as credible.
- IOA concurs with NASA because of concerns on inadvertent Bus 15 Tie.
- IOA concurs with NASA because of concerns on removing AC 16 power during an AC overvoltage condition.
- IOA concurs with NASA because of concerns on having a 17 "Psychotic" GPC.
- IOA concurs with NASA's view that a circuit breaker 18 "tripping" is not readily detectable.
- This discrepancy was caused by an IOA "typo". 19
- IOA was unaware of NSTS policy that prohibits supplying 20 payload power directly from fuel cell #3.
- NSTS 22206 revision on the criticality of External Tank. 21
- This FMEA was altered because of an MCR implementation. 22

APPENDIX F

NASA FMEA TO IOA WORKSHEET CROSS REFERENCE / RECOMMENDATIONS

| I DE | NTIFIERS | | N: | ASA | | | 11 | | IOA I | RECOMM | ENDA | TIONS # | | |
|-----------------------|-----------------------------|------------|----------------|----------|------|--------|--|------------|---------------|--------------|------------|--------------------|---------|--------|
| NASA FMEA NUMBER | : IOA : ASSESSMENT NUMBE | R II | H₩/F | l A | - | C | 11 | HW/F | SCREI | C ; | | OTHER EE LEGEND | CODE) | I ISSU |
| 15-6-200200-1 | : EPD&C-6671X | ==;; | ======: 3/3 | === ! | ===: | ==== | :::::::::::::::::::::::::::::::::::::: | / | : | ;=====; ; | ====: 0 | ======= | ======= | ===== |
| 15-6-2003-1 | EPD&C-5025 | 11 | 2/1R | , ! P | Р | Р | ; ; | , | ! | ! | 0 | | | i i |
| | EPD&C-5151 | ;; | 2/1R | | | P | 11 | 1 | 1 | 1 | 9 | | | 1 |
| | EPD&C-5152 | 11 | 2/1R | | | P | 11 | , | 1 | i 1 | (A) | | | j L |
| 15-6-2003-2 | EPD&C-5026 | ! ! | 2/1R | | - | , p | 11 | , | i I | 1 | 8 | | | 1 |
| • • • • • • | EPD&C-5150 | 11 | 2/1R | | F | , D | 11 | 1 | 1 | 1 | 9 | | | i |
| | : EPD&C-5153 | 11 | 2/1R | | F | , P | 11 | , | , | , | 9 | | | 1 |
| 5-6-200300-1 | EPD&C-6574 | 11 | 3/3 | , , ! | ' | , | 1 ! | , | | 1 | 8 | | | 1 |
| | EPD&C-6575 | 11 | 3/3 | ! | | | 11 | , | 1 | | 2 | | | 1 |
| | EPD&C-6576 | 11 | 3/3 | ! | | | 1 1 | , | į | 1 | 9 | | | ; |
| | EPD&C-6577 | - 11 | 3/3 : | ! | | | 11 | , | <u>.</u> ! | ! | 9 | | | 1 |
| | : EPD&C-6630 | 11 | 3/3 | ! | | | | 1 | ! | 1 | 9 | | • |) } |
| | : EPD&C-6631 | 11 | 3/3 : | | | | ! ! | , , | ! | j I | 0 0 | | | 1 |
| | : EPD&C-6632 | 11 | 3/3 1 | | | | 11 | , | ! | : | 0 | | | ! ! |
| | EPD&C~6633 | 11 | 3/3 | | | | 1 1 | , | ; ! | i 1 | 8 | | | ! : |
| | EPD&C-6634 | - 11 | 3/3 | | | | 11 | , | , | 1 | Ø. | | | 1 |
| | EPD&C-6635 | ! ; | 3/3 | | | | 11 | 1 | 1 | 1 | 9 | | : | i |
| | EPD&C-6636 | 11 | 3/3 1 | | | | 11 | 1 | ! | 1 | 9 7 | | : | |
| | EPD&C-6637 | 11 | 3/3 : | | | | 11 | 1 |) T | 1 | 20 20 | | | |
| | EPD&C-6638 | - | 3/3 : | | | | 11 | , | : I | 1 | 9 U | | • | |
| | EPD&C-6639 | - ! ! | 3/3 : | | | | 11 | 1 | ! ! | ; | 0 | | ; | |
| | EPD&C-6640 | 11 | 3/3 : | | | | !! | , | ! ! | - | 9 | | i | |
| | EPD&C-6641 | 1 1 | 3/3 : | | | | 11 | 1 | I } | | 0 | | į | i |
| | EPD&C-6642 | 11 | 3/3 | | | | ! ! | / ! | ? 1 | 1 | 8 | | i | |
| | EPD&C-6643 |)) | 3/3 1 | | | | :: | , , | ! ! | ! | e O | | i | |
| | EPD&C-6644 | !! | 3/3 | | | | 11 | / ! | ! ! | | <u>0</u> | | i | |
| | EPD&C-6645 | 11 | 3/3 | | | | 1 1 | / , | ! | | 9 0 | | i | |
| | : EPD&C-6646 | 11 | 3/3 | | | | 11 | / 1 | i | | ย 3 | | i | |
| | EPD&C-6647 | 1 1 1 1 | 3/3 | | | | 11 | / 1 / 1 | | | ଅ ଅ | | i | |
| 5-6-2004-1 | EPD&C-5020 | 11 | 3/1R | p | NA | D | 11 | , j 1 | | | ย 5 | | į | |
| | EPD&C-5148 | 11 | 3/1R 1 | | NA | | 11 | / 1 | | | J 5 | | i | |
| | EPD&C-5155 | 11 | 3/1R (| | NA | | 11 | 7 1 | | | - | | | |
| 5-5-2 004- 2 | EPD&C-5021 | | 3/1R | | NA | | 11 | I = I | | | 5 | | i | |
| | EPD&C-5149 | 11 | 3/1R } | | NA | | !! | 1 1 | | 1 | | | | |
| | EPD&C-5154 | | 3/1R | | NA | | !! | / ! | | 1 | - | | | |
| 5-6-200400-1 | EPD&C-5672X | 1 1 | 3/1R | | 9 | | 11 | <i>j</i> 1 | | : | | | 1 | |
| 5-6-2 00500- 1 | SPD&C-6673X | 11 | 3/3 1 | • | 1 | | 1 ! | 1 | | ! | - | | | |
| 5-6-200510-1 | EPD&C-6674X | 11 | 3/3 1 | | | | ! ! | 7 1 | | | 3 | | į. | |
|)-a-2 00520 -1 | SPD&C-5675X | : : | 3/3 : | | | | 1 F | 7 1 | | | d A | | | |
| i-6-200530-1 | EPD&C-6676X | | 3/3 | | | | 11 | <i>f</i> 1 | | | • | | | |
| -6-200540-1 | EPD&C-6677X | | 3/3 | | | | 11 | / : | | | a A | | i | |
| i-6-200550-1 | EPD&C-6678X | | 3/3 | | | | 1 1 | / : | | | - | | | |
| -6-200560-1 | EPD&C-6677X | | 3/3 1 | | | | 11 | / 1 | | ! | _ | | i . | |
| -4-200570-1 | EPD&C-5680X | | 3/3 | | | | | / 1 | | : : | - | | 1 | |
| -6-200580-1 | EPD&C-5681X | | 3/3 | | | | 11 | / 1 / 1 | | | | | 1 | |
| | | 11 | | | | | 11 | | | 1 1 | į. | | ÷ | |

| 152 | FIERS | 11 | NAS | ,,,, | | | ! ! ! ! | | | MENDATIONS \$ | |
|--|--|------------------------|--------|------------|--------|--------|------------|------------|------------------|--------------------------------|--------------------------|
| NASA FMEA NUMBER | : IOA : ASSESSMENT NUMBER | :: :: CRI :: HW/ | F | A | B (| С | 11 | W/F | SCREENS A B C | ; OTHER ! (SEE LEGEND CODE) | ; ISSUE ; ==!===== |
| :===================================== | =;==================================== | :{{==== }{ | | ==== | ===: | | ;;=: | :==== / | ;======== : | ; 0 | |
| | : EPD&C-6683X | | 1R | p | P i | | 1 1 | 1 |)) | 1 0 | ŀ |
| 15-6-2005A-3 | : EPD&C-6684X | 11 1/ | | • | | | 11 | Ī | 1 | : 0 | 1 |
| 15-6-20058-3 | : EPD&C-6685X | | 1R | р | P | | 13 | 1 | 1 | ; 0 | i i |
| 15-6-2005C-3 | | | 1R | | | | | Ī | ! | : 0 | <u> </u> |
| 05-6-2 00 6-1 | EPD&C-5085 | | 1R | | , F | | 11 | , | ! | : 0 | 1 |
| | ; EPD&C-5086 | | 1R | | F | | 11 | , | | ; 0 | 1 |
| | ; EPD&C-5087 | | 1R | | , E | | 11 | 1 | 1 | 1 0 | 1 |
| | : EPD&C-5091 | | IR I | | F | , D | !! | 1 | ! | 1 0 | 1 I |
| | : EPD&C-5092 | | | | r | F D | 11 | 1 | ! | 1 0 | } 1 |
| | : EPD&C-5093 | | 1R | | r | F D | 11 | 1 | 1 | 1 0 | 1 |
| | : EPD&C-520B | | | | F | F D | 11 | 1 | 1 | 1 2 | 1 |
| | : EPD&C-5209 | | IR I | | r | T D | 11 | I I | 1 | ; 2 | 1 |
| | EPD&C-5210 | | | | r | ۲ م | 11 | , | ! | 1 0 | |
| | ; EPD&C-5214 | | 1R | | _ | P | 11 | ! | 1 | ; 0 | |
| | : EPD&C-5215 | | /1R | | • | P | !! | ', | i | ; 0 | ! |
| | : EPD&C-5216 | | /1R | | | P | 11 | / | i | · - | ! |
| | EPD&C-5422 | | /1R : | | _ | P | 11 | 1 | i | 1 0 | ! |
| | : EPD&C-5423 | | /1R | | • | P | 1 1 | <i>i</i> | i | : 0 | 1 |
| 05-6-2008A-1 | : EPD&C-5007 | 11 3 | /1R | P | F | P | 11 | I | 1 | 1 5 | 1 |
| | EPD&C-5008 | 11 3 | /1R | P | F | P | 1 1 | 1 | | 1 5 | 1 |
| | EPD&C-5017 | 11 3 | /1R | P | F | P | ; ; | 1 | i | 1 5 | |
| | : EPD&C-5018 | | /18 | | F | 7 | 1 1 | 1 | 1 | | 1 |
| 05-6-2008B-1 | EPD&C-5125 | 11 2 | /1R | P | F | ٦ | 1 1 | 1 | i i | 1 10 | • |
| | : EPD&C-5126 | 11 2 | /1R | ; P | F | Ρ | ;; | - / | 1 | 1 10 | i |
| | : EPD&C-5146 | 11 2 | /1R | P | F | Ρ | 1 ; | 1 | i | 10 | i |
| | : EPD&C-5147 · | 11 2 | /1R | ; P | F | P | 1 1 | 1 | 1 | 10 | i |
| 05-6-2008C-1 | : EPD&C-5346 | 11 3 | /1R | ; P | F | Ρ | 1 1 | 1 | 1 | 1 5,10 | i |
| | : EPD&C-5347 | 11 3 | /1R | P | F | P | ! } | 1 | 1 | 1 5,10 | ; |
| | EPD&C-5358 | 11 3 | /1R | ! P | F | Ρ | 1 1 | 1 | 1 | 5,10 | |
| | EPD&C-5359 | 11 3 | /1R | F | F | P | 1 1 | 1 | 1 | 5,10 | i |
| 25-6-2010-1 | : EPD&C-5106 | 11 7 | /1R | ! P | Ρ | Þ | !! | 1 | <u>.</u> | 1 2 | |
| 00 2 2220 - | EFD&C-5245 | 11 7 | /1R | į P | P | F | 1 1 | 1 | 1 | 1 2 | |
| | : EPD&C-5445 | 11 7 | 7/1R | P | ē | ? | : : | 1 | 1 | 1 2 | |
| 25-6-2011-1 | EPD&C-3467 | 11 1 | 7/1R | ; P | Ê | P | : : | 1 | | ; <u>3</u> | |
| ** | : EPD&C-5469 | 11 7 | 5/1R | ; P | F | ₽ | h 2 E 1 | 1 | i | 9 | |
| | EPD&C-5532 | 11 | 3/1R | ! P | F | P | 1 1 | 1 | 1 | [0 | : |
| | EPD&C-5534 | 1 1 | 5/1R | 1.8 | P | 2 | 1 1 | / | i | 8 | |
| | EFD&C-5636 | 11 | MIR | 1.7 | ۴ | F | 1 3 | / | | 9 | ÷ |
| | EPD&C-5638 | 11 | 1/1R | ; P | ρ | P | : 1 | 1 | ! | 9 | i |
| 35-6-2011-2 | EPD&C-5468 | 1 2 | 3/3 | į | | | 1 | 7 | 1 | 3 | |
| 69 0 2011 1 | EPD&C-5470 | 1 1 | 3/3 | 1 | | | 1 | 1 | ! | : <u>1</u> | |
| | EPD&C-5533 | 1 1 | 3/3 | į | | | 1 | ; / | 1 | ; <u>@</u> | 1 |
| | EPD&C-5535 | 1.1 | 3/3 | | | | : | } / | r I | 7 | |
| | : EPD&C-5637 | | 3/3 | | | | : | į / | ! | 3 | |
| | EPD&C-5639 | | 3/3 | : | | | : | i / | 1 | 1 3 | : |
| 35-6-2012-1 | : EPD&C-6686% | | 2/1R | ; 0 | 9 | ۶ | 1 | ļ / | i | . G : U | i |
| 05-6-2015-1 | EPD&C-5885 | | 3/1R | | | Р | ! | 1 / | i i | 1 0 | 1 |
| AG_G_TATA_1 | : EPD&C-3889 | | 3/1R | | | | | | 1 | 1 3 | 1 |
| |) EPD&C-5893 | | 3/1R | | | | | 1 / | 1 | 3 | 1 |
| | EFD&C=5062 | | 3/1R | | | | | 1 | 1 | 1 2 | i |
| | - ここはみしこう知 り 差 | 1.7 | W7 #15 | 7 1 | , | | | | | | |

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|----------------------|------------------------------|------------------|-----------------|-----------|------------|---------|-------------------|---------------------|---------------------------------------|--|---------------|
| NASA FMEA NUMBER | IOA ASSESSMENT NUME | | | ; SI | CREE B | NS C | | | SCREENS | OTHER (SEE LEGEND CODE) | : ISSUE |
| 05-6-2015-1 | EPD&C-6066 | ; | ; 3/1R | ===: ; | P | P | =;; ;; | ===== / | -==================================== | {===================================== | ;======= ! |
| i | : EPD&C-6070 | } | 3/1R | l P | Ρ | Ρ | 1 1 | 1 | 1 | ; 0 | , ! |
| | EPD&C-6242 | ; | | P | Ρ | Ρ | 1 1 | 1 | ; | ; 0 | |
| • | EPD&C-6246 | ł | | | P | ٢ | ;; | | } | ; 0 | <u>}</u> |
| : 05-6-2015-2 | EPD&C-6250 | 1 | | i P | P | Ρ | 1; | | } | : 0 | I I |
| : : 83-0-7013-7 | EPD&C-5886 | 1 | | | | | 1 1 | | 1 | ; 0 | ! ! |
| | : EPD&C-5890 : EPD&C-5894 | ; | | ; 1 | | | 11 | | | | 1 1 |
| | : EPD&C-6063 | i | | i ! | | | 11 | | ! ! | | 1 |
| | : EPD&C-6067 | 1 . 1 . | | , | | | 1 1 1 1 1 1 1 1 1 | | i 1 | . 3 | |
| | : EPD&C-6071 | 1 ! 1 ! | | | | | !! | | j ! | ! 0 | |
| | EPD&C-6243 | 1 1 | | | | | 11 | 1 | ! | 0 0 | i |
| | EPD&C-6247 | 11 | | | | | 11 | 1 | ! ! | . v | |
| | EPD&C-6251 | 1 1 | | | | | 11 | , | | 0 | i |
| 05-6-2015-3 | : EPD&C-5887 | ; ; | | P | NA | Р | 11 | 1 | | 2 | · |
| | EPD&C-5891 | 1 1 1 1 | 3/1R | P | NA | P | ; ; | / | | 2 | · . |
| | : EPD&C-5895 | | 3/1R | Ρ | NA | P | 11 | / : | | 2 | |
| | EPD&C-6064 | t 1 | | | NA | Ρ | ! ! | / ; | ; | 2 | 5 |
| | : EPD&C-6068 | ; ; | | • | NA | | ! ! | / ; | ; | 2 | |
| | EPD&C-6072 | ;; | 3/1R : | | NA | | ; ; | / / | ; | 2 | ; |
| | EPD&C-6244 | 11 | | | NA | | 11 | / ! | ł | 2 | ; |
| | : EPD&C-6248 : EPD&C-6252 | 1 1 | 3/1R | | NA | | 1 } | / / | ! | 2 : | 1 |
| 05-6-2015-4 | : EPD&C-5888 | ! ! | 3/18 | | NA | | 1 1 | _ / } | 1 | 2 | 1 |
| 00 0 1010 7 | EPD&C-5892 | 1 | 2/1R | P | | | ;; | / ; | } | 5 ; | ; |
| | : EPD&C-5896 | 11 | 2/1R 2/1R | | • | | | / i | j | 5 | : |
| | : EPD&C-6065 | - 11 | 2/1R | p | • | | !! | / i | i | 5 | 1 |
| | EPD&C-6069 | - 11 | 2/1R | p | • | - | :: | 1 ! | i I | 5 ; | ; |
| | : EPD&C-6073 | 11 | 2/1R | P | P | • | ; ; | 7 1 | ! | 5 : | i 1 |
| | EPD&C-6245 | 1 1 | 2/1R | Ρ | ۴ | Ρ | 1 1 | / | · } | 5 | ! |
| | : EPD&C-6249 | 11 | 2/1R | p | P | Ρ | 1 1 | 7 | , | 5 | ! |
| | : EPD&C-6253 | 1 5 | 2/1R | P | P | P | 1 | / : | 1 | 5 | |
| 35-6-2015-5 | - EPD&C-5888A | ; ; | 2/1R | | 5 | Ρ : | : ; | 7 1 | | 2 | |
| | EPD&C-589ZA | 1 1 | 2/18 | | | | 1 | / ! | ! | 3 | : |
| | EPD&C-5896A | 11 | 2/1R i | | | | 1 | / i | i | 3 | 1 |
| | EPD&C-6065A EPD&C-6069A | : ! | 2/1R = | | | | 1 | / ! | ! | 2 | |
| | : EPD&C-6073A | 11 | 2/1R | | P 7 | | į | / ! | 1 | ð | 1 |
| | EPD&C-6245A | 11 | 2/1R 2/1R 1 | | P : | - i | 1 | / 1 | | 8 | |
| | EPD&C-5249A | 1 1 | | | 6 6 9 8 | | ì | / i | | 7 | ! |
| | EPD&C-6253A | | 2/1R | | p p | | l l | i i | : | 2 . | |
| 05-6-2 016- 1 | EFD&C-3935 | 11 | 3/1R | | 9 p | | 1 | 7 1 | • | 7 | |
| | EPD&C-5938 | - 1 | 3/18 | | p p | | 1 | / 1 | | g : | 3 |
| | : EPD&C-5939 | ; ; | J/18 : | | ۾ ۾ | | | 7 1 | • | <u>.</u> | • |
| | : EPD&C-6110 | 1 1 | 3/1R | | غ | 1 | ! | 1 | | 9 1 | |
| | EFD&C-6112 | : 1 | J/18 : | P : | 5 5 | 1 | 1 | 7 1 | | ā : | - |
| | EPD&C-6114 | 1 1 | 3/1R | | ρ | | | 7 1 | 1 | 9 | |
| | : EPD&C-6308 | 1 1 | 3/18 : | | P | - | | 7 ; | i | 0 | ; |
| | EPD&C-6310 | 11 | 3/18 | | | | | 7 1 | 1 | ð | ÷ |
| | EPD&C-6312 | 11 | 3/1R | - 5 | 2 | , | | | į | 9 | i |
| | i | : 1 | 1 | | | 1 | 1 | 1 | 1 | į. | 1 |

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|--|---------------------|--|---------|--------|-------|------|--------------------|-------------------------|----------------|
| NASA FMEA NUMBER | : ASSESSMENT NUMBER | CRIT | ; SCREE | С | !! | HW/F | SCREENS A B C | OTHER (SEE LEGEND CODE) | ISSUE |
| ====================================== | • | ;;==================================== | | Р | - i i | / | ! | 5 | , |
| | : EPD&C-5937 | 11 3/1R | I PF | P | ; ; | 1 | 1 | 5 | } |
| | | 11 3/1R | P F | Ρ | :: | 1 | ‡ # | : 5 | 1 |
| | | 11 3/1R | I P F | P | 1 1 | 1 | 1 | ; 5 | 1 |
| | | 11 3/1R | 1 P F | Ρ | 1 1 | 1 | 1 | 1 5 | 1 |
| | | 11 3/1R | ! P F | Ρ | 1 1 | 1 | 1 | 1 5 | ! |
| | | 11 3/18 | I P F | Ρ | !! | 1 | ; | ; 5 | ! • |
| | | 11 3/1R | : P F | P | 1 ! | 1 | † 1 | ; 5 | 1 |
| | : EPD&C-6313 | 11 3/1R | P F | P | 11 | 1 | 1 | ! 5 | 1 |
| 05-6-2017-1 | | 11 2/1R | ; P P | Р | 11 | 1 | 1 | : 8 | ; 1 |
| 0 5-6-2 0 17 - 2 | | 11 3/1R | ; | ρ | 11 | 1 | 1 | : 0 | i ! |
| 05-6-2048-1 | | 11 3/3 | ! | | !! | 1 | ļ | . 0 | <u> </u> |
| | EPD&C-5123 | 11 3/3 | ! | | 1 ! | 1 | i i | ; a | ! |
| | : EPD&C-5344 | 11 3/3 | 1 | | !! | 1 | 1 | ; 0 | ! ! |
| 05-6-2048-2 | EPD&C-5005 | 11 3/1R | P NA | P | 1 1 | 1 | 1 | ¦ 5 | ! |
| 00 G 2010 L | : EPD&C-5124 | 11 3/1R | | P | 11 | 1 | ; | † 5 | ! |
| | : EPD&C-5345 | 11 3/1R | | P | 11 | 1 | - | 1 5 | 1 |
| 85-6-285889-1 | : EPD&C-6689X | 11 3/2R | | | 1 ! | 1 | 1 | ! B | 1 |
| 05-6-205100-1 | ; EPD&C-6690X | 11 3/3 | ! | • | 13 | , | | 1 0 | ļ |
| 85-6-2132-1 | : EPD&C-6691X | 11 2/1R | ! P P | Р | 13 | , | 1 | . 0 | } |
| 05-6-2139-1 | : EPD&C-5861 | 11 3/1R | | | 11 | , | : | | 1 |
| #J-0-2137-1 | : EPD&C-5863 | 11 3/1R | | þ | 11 | , | · ! | : a | 1 |
| | : EPD&C-5865 | 11 3/1R | | p | 11 | · / | | . 3 | 1 |
| | : EPD&C-6056 | 11 3/1R | | P | 11 | , | · ! | ; 0 | 1 |
| | : EPD&C-6058 | 11 3/1R | | P | 11 | , | ! | ! A | 1 |
| | ; EPD&C-6060 | 11 3/1R | | P | 11 | 1 | | ; 8 | ! |
| | EPD&C-6236 | 11 3/1R | | P | 11 | , | 1 | ! 0 | 1 |
| | : EPD&C-6239 | 11 3/1R | | P | 11 | 1 | 1 | · • | ! |
| | EPD&C-6240 | 11 3/1R | | Р | !! | | į | ; 0 | ! |
| 05-6-2139-2 | : EPD&C-5862 | 11 3/1R | | P | 11 | 1 | 1 | : 5 | 1 |
| 40-9-110; 1 | : EPD&C-5864 | 11 3/1R | | P | 1 1 | , | ! | 1.5 | 1 |
| | : EPD&C-5866 | 11 3/1R | | p | 11 | | | 1 5 | : |
| | : EPD&C-5057 | 11 3/1R | | P | 11 | 1 | | 1.5 | † : |
| | : EPD&C-6059 | 11 3/1R | | p | 1 5 | 7 | 3 | 1 E 1 U | 1 |
| | EPD&C-6061 | 11 3/1R | | p | 11 | | 1 | 1 5 | ļ |
| | : EPD&C-6237 | 11 3/1R | | O | ! ! | | ! | 1 5 | 1 |
| | EPD&C-6238 | 3/18 | | Ð | | | ! | 1.5 | • |
| | EPD&C-6241 | 11 3/1R | | Ρ. | 11 | | ! | . 5 | |
| 95-4-2140-1 | EPD&C-5334 | 11 3/1R | | A P | 11 | | | 1 5 | i |
| 85-6-214 0- 2 | : EPD&C-5335 | 11 2/18 | | A P | ! ! | | ! | 1 1 | |
| 25-6-2141-1 | EPD&C-5312 | 11 3/1R | | A P | 1 1 | | 1 | 1 5 | 1 |
| 00 0 4171 1 | : EPD&C-5338 | 11 3/1R | | A P | 1 1 | | | 1.5 | į ; |
| 85-6-2141-2 | : EPD&C-5313 | 11 3/3 | | | 1 1 | | 1 | 1 2 | l i |
| ee u Aiti I | ; EPD&D-5339 | 11 3/3 | 1 | | 1 1 | | 7 | 3 | 1 |
| 35-6-2142-1 | : EPD&C+5336 | 11 1/1 | ! | | 1 | | 1 | 1.6 | • |
| 05-6-21 42 -2 | EPD&C-5337 | 11 3/3 | : | | 1 1 | | 1 | 1 8 | 1 |
| 05-6-2143-1 | : EPD&C-5623A | 1; 2/1R | , b b | ρ | 11 | | ! | 1 5 | 1 |
| a5 G T145_1 | : EPD&C-6625A | 11 2/1R | | p p | 1 1 | | | 6 | 1 |
| | : EPD&C-6627A | 11 2/1R | | , P | 1 1 | | 1 | 1.6 | 1 |
| | : EPD&C-6629A | 11 2/1R | | | 1 1 | | | 1.5 | 1 |
| | : CFD86-9027M | 1) 2/1N | 11 5 | | 1 1 | 7 | 1 | • | |

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|-------------------------------|------------------------------|-------------------|--------------|--------|--------|--------|--------------|------------|--|------------------|---------|
| NASA FMEA NUMBER | ; IDA ; assessment num | IBER 11 | | i A | 8 | С | 11 | HW/F | SCREENS A B C | | |
| 05-6-21 4 3-2 | : EPD&C-6623 | ; | | | Р | P | = ; ; ; ; | | :;==================================== | ; 2 | ; ====: |
| | EPD&C-6625 | ! ! | 3/1R | ; P | Ρ | P | 1 1 | 1 | ; | 1 2 | · [|
| | EPD&C-6627 | 1 1 | 3/1R | i P | Ρ | Ρ | ! ! | 1 | 1 | 1 2 | ! |
| | : EPD&C-6629 | 1 1 | 3/1R | 1 P | P | P | 11 | 1 | 1 | 1 2 | ! |
| 05-6-214 3-3 | : EPD&C-6622 | 11 | 3/1R | P | F | P | 1 1 | 1 | 1 | : 0 | |
| | : EPD&C-6624 | 1 1 | 3/1R | i P | F | Ρ | 1 1 | | i j | ; 0 | 1 |
| | EPD&C-6626 | 1 1 | 3/1R | i P | F | Ρ | ! ! | / | 1 | 1 0 |) |
| | EPD&C-6628 | 1 1 | | | F | Ρ | : 1 | | ! | ; 0 |) ! |
| 05-6-2143-4 | : EPD&C-6623B | 11 | | | F | P | 1 1 | 1 | 1 | 1 6 | t 1 |
| | : EPD&C-6625B | | | | F | Ρ | ; ; | / | 1 | ; 6 | ì |
| | : EPD&C-6627B | | | | F | Ρ | 11 | 1 | } | 1 6 | i I |
| | ; EPD&C-6629B | 11 | | | F | P | 1 1 | 1 | 1 | 1 6 | ! |
| 0 5-6-2181-1 | : EPD&C-5066 | 1 1 | | | F | Ρ | 1 1 | / | 1 | 1 6 | 1 |
| | ; EPD&C-5068 | ; ; | | | F | P | 13 | / | 1 | 1 6 | 1 |
| | ; EPD&C-5070 | 11 | | | F | P | 1; | 1 | i | 1 6 | |
| | EPD&C-5407 | . !! | | | F | P | 1 ; | 1 | ; | 1 6 | |
| | : EPD&C-5410 | ; t ; ; | | | F | P | 1 1 | 1, | i 1 | 1 6 | |
| | EPD&C-5411 EPD&C-6370 | ;; | | | F | P P | 1 1 | , | i 1 | 1 6 | i |
| | : EPD&C-6373 | 11 | | | F | r P | 1 1 | , | 1 | 6 6 | i ! |
| | EPD&C-6374 | 11 | | | | p | 11 | , | 1 | : 0 } | į L |
| 05-6-2181-2 | : EPD&C-5067 | 11 | | | ŗ | 1 | 11 | 1 | ! | . ១ ! ខា | 1 |
| ** * **** * | EPD&C-5969 | ! ! | | ! ! | | | 11 | , | : | ; <u>a</u> | l L |
| | EPD&C-5071 | ;; | | : | | | !! | , | 1 | . 0 ! 8 | : ! |
| | : EPD&C-5408 | 11 | | ! | | | 11 | | ! | , o : 0 | ! ! |
| | EPD&C-5489 | 11 | • • • | ! | | | 11 | , | ! | 1 0 | ; ! |
| | EPD&C-5412 | | | } | | | | 1 | · • | : 0 | ! |
| | EPD&C-6371 | | | 1 | | | ;; | , | · - | . 0 | ! |
| | : EPD&C-6372 | ! } | 3/3 | } | | | 1 1 | 1 | ! | 1 0 | ! |
| | : EPD&C-6375 | 1 1 | 3/3 | 1 | | | !! | 1 | <u> </u> | ; 0 | |
| 05-6-2183-1 | ! EPD&C-5053 | 1 1 | 2/1R | ; P | NA | ۴ | !! | 1 | } | 1 1,5 | t ! |
| | FPD&C-5176 | 1 1 | 2/1R | 1 P | NA | P | 1 1 | 1 | 1 | 1 1,6 | i i |
| | : EPD&C-5377 |) † | 2/1R | 1 | MA | ٩ | 11 | 1 | 1 | 1 1,6 | ; ; |
| J5-6-2183-2 | : EPD&C-5054 | ! 5 | 3/1R | ٦ | NA | P | 1 ! | 1 | i i | ; <u> </u> | ŀ |
| | EPD&C-5177 | : 1 : 1 | 3/1R | ٢ | NΑ | | i i i i | 1 | | : 5 | ! |
| | : EPD&C-6376 | : 1 | 3/18 | | NA | | i 1 i 1 | / | | : 5 | ! ! |
| 35-6-218 4- 1 | EPD&C-5056 | : 1 | 3/18 | | NA | | 1 1 | 1 | | 1 5.6 | |
| | EPDRC-5178 | 11 | 3/1R | | NA | | 1 1 | / | | 5,6 | |
| | EPD&C-6378 | 1 1 | 3/1R | | NA | | 11 | 7 | | 5,6 | |
| 35-6-2 184- 2 | EPD&C-5055 | 11 | 2/1R | | NA | | 1 1 | 1 | • | 1 1 | |
| | : EPD&C-5179 | 1! | 2/1R | | NA | | 11 | / | | 1 1 | |
| ∂5-5-2185-1 | EPD&C-6379 | ;; | 2/1R 7/10 | | NA | | 11 | <i>f</i> , | | | |
| an <u>_a_</u> 77 <u>9</u> 9_[| EPD&C-5477 | 11 | 3/1R | | | | 11 | <i>f</i> | | 0 | |
| | : EPD&C-5484 : EPD&C-5542 | : 1 : 1 | 3/1R | | F | - | | 1 | | i D | |
| | : EPD&C-5549 | 11 | | | | | | 7 | | : ð : ð | |
| | EPD&C-5593 | 11 | | | F | | 11 | / / | | ୍ଷ ପ୍ର | |
| | : EPD&C+56 00 | † † † 3 | | | г = | | 11 | 1 | 1 | i 4 | |
| 35-6-3185 - 2 | EPD&C-5478 | 1 1 1 1 | | | | | 11 | / / | ! ! | : U : 1.6 | |
| | : EPDAC-5483 | 1 d 1 d 1 d | 3/1R | | | | 11 | † | | , 1,0 1,6 | |
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| NASA FMEA NUMBER | ; IOA ; ASSESSMENT NUMBER | | A B C | :: HW/F | | : OTHER : (SEE LEGEND CODE) | ISSUE |
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| | ; EPD&C-5548 | 3/1R | FFP | 11 / | | 1,6 | 1 |
| | : EPD&C-5594 | 11 3/1R | | H / | | 1 1,6 | ; |
| | : EPD&C-5599 | 11 3/1R | | H / | | 1,6 | } |
| 15-6-2186-1 | : EPD&C-5480 | 11 3/1R | | 11 / | ! | <u> </u> | } |
| | EPD&C-5481 | 11 3/1R | | 11 / | ! | 1 0 | 1 |
| | : EPD&C-5545 | 11 3/1R | | 11 / | 1 | 1 0 | i |
| | : EPD&C-5546 | 11 3/1R | | !! / | 1 | ;) | i i |
| | EPD&C-5596 | 11 3/1R | | 11 / 11 / | ; | ¦ 0 ¦ 0 | 1 |
| | EPD&C-5597 | 11 3/1R | | | į. I | 1 1 | ! |
| 15-6-2186-2 | : EPD&C-5479 | 11 3/1R 11 3/1R | | 11 / | 1 | 1 1 | ! |
| | : EPD&C-5482 | 3/1R 3/1R | | $\frac{H}{H} = f$ | ! | 1 1 | |
| | : EPD&C-5544 : EPD&C-5547 | 11 3/1R | | 11 / | ! | ! 1 | 1 |
| | : EPD&C-5595 | ;; 3/1R | | 11 / | ! | 1 | l i |
| | : EPD&C-5598 | 11 3/1R | | 11 / | ; | 1 1 |)) |
| 35-6-2186- 3 | EPD&C-5480A | 11 3/1R | | 11 / | ! | : 0 | i i |
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| | EPD&C-5545A | 11 3/1R | PPP | 11 / | 1 | : 0 | i |
| | EPD&C-5546A | 11 3/1R | PPP | 11 / | 1 | 1 0 | 1 |
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| | : EPD&C-5597A | 11 3/1R | PPP | 11 / | ! | ; 0 | 1 |
| 35-6-2187-1 | EPD&C-5463 | H 3/1R | PPP | 11 / | ļ. | 1 3 | , |
| | : EPD&C-5473 | 11 3/1R | | 11 / | i i | 1 0 | 1 |
| | : EPD&C-5529 | 11 3/1R | PPP | 11 / | 1 | 1 0 | |
| | : EPD&C-5538 | 11 3/1R | | H = I | 1 | ; 0 | } |
| | ; EPD&C-5631 | 11 3/1R | | 11 / | | | i |
| | : EPD&C-5645 | 11 3/1R | IPPP | 11 / | ; | ; 0 | i ! |
| 0 5-6-21 87 -2 | : EPD&C-5464 | 11 3/3 | 1 | 11 / | i | ; a | ! |
| | EPD&C-5474 | 11 3/3 | , | 11 / | i | : W | ! |
| | : EPD&C-5528 | 11 3/3 11 3/3 | 1 | 11 / | ! ! | ; Ø | |
| | EPD&C-5539 | 11 3/3 11 3/3 | : | 11 / | 1 | 1 1 | |
| | . EPD&C+5630 : EPD&C+5644 | 11 2/2 | 1 | 11 / | ! | 2 | : |
| 05-6-2188-1 | FPD&C-5466 | 11 2/2 | 1 | H 7 | | 3 | ; |
| #1-9-1100-1 | : EPD&C-5476 | 11 3/3 | ! | \ddot{H} \dot{I} | 1 | 2 | |
| | EPD&C-5526 | 11 3/3 | | 11 / | į | · 2 | j. |
| | EPD&C-5541 | 11 3/3 | ! | 11 / | 1 | 1 1 | 1 |
| | EPD&C-5632 | 11 3/3 | i ē | 11 / | * | : Ø | 1 |
| | EPD&C-5642 | 11 3/3 | 1 | 11 / | ; | 3 | i |
| 85-6-2188-2 | : EPD&C-5465 | 11 J/1R | 1 F F P | H / | 1 | 1 1 | 1 |
| | : EPD&C-5475 | 11 3/1R | IFFP | 11 / | ! | 1 | i |
| | : EPD&C-5527 | 11 3/1R | 1888 | 11 / | 1 | 1 1 | i |
| | EPD&C-5540 | H 3/18 | | 11 / | 1 | y 1 n 4 | : |
| | EPD&C-5633 | 3/1R | 1 F F P | | i | 8 <u>1</u> • • • | 1 |
| | EPD&C-5643 | 11 3/1R | IF F P | 1 / | į 1 | : ± { 91 | |
| 05-6-2191-1 | EPD&C-5502 | 11 3/3 | | 11 / | i | ; 면 : 영 | ! |
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| 95-6-2191-1 | : EPD&C-5617 | | == == ==: | | === | ==== | =;; ;; | | | ; ==================================== | == |
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| | EPD&C-6419 | 11 | 3/3 ! | | | | 1 ! | / | ! | ! 0 | 1 |
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| NASA FMEA NUMBER | IOA ASSESSMENT NUMBER | | W/F : | Α | REEN B | С | 11 F | W/F | SCREENS A B C | ; OTHER ; (SEE LEGEND CODE) | ISSU - - |
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| ., | : EPD&C-5910 | 11 | 3/3 1 | | | | !! | 1 | 1 | ; 0 | 1 |
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| | : EPD&C-5914 | | 3/3 : | | | | ; ; | 1 | 1 . | ; 0 | 1 |
| | : EPD&C-5915 | | 3/3 1 | | | | 11 | 1 | 1 | ! 0 | i |
| | ; EPD&C-5918 | | 3/3 1 | | | | 11 | | 1 | 0 | i 1 |
| | : EPD&C-6086 | | 3/3 | | | | ; ; | 1 | 1 | ; 2 | 1 |
| | : EPD&C-6089 | ; } | 3/3 | | | | 11 | 1 | j | ; Ø | 1 |
| | : EPD&C-6090 | 11 | 3/3 | | | | 11 | /, | i | ; 0 ; 0 | 1 |
| | EPD&C-6093 | 1 1 | 3/3 | | | | ;; | ! | i | ; u | ! |
| | : EPD&C-6094 | 11 | 3/3 | | | | 11 | 1 | 1 | ; 0 | ! |
| | : EPD&C-6097 | | 3/3 | | | | 11 | , | 1 | ; 0 | ! |
| | : EPD&C-6266 | { | 3/3 | | | | 1 1 1 1 1 1 1 1 | 1 | 1 | ; 0 | : |
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| | : EPD&C-6270 | ;; ;; | 3/3 | ! } | | | | 1 | ! | : 0 | 1 |
| | : EPD&C-6272 : EPD&C-6274 | - 11 | 3/3 | , ! | | | | Ī | ; ; | ; 20 | 1 |
| | : EPD&C-6276 | 11 | 3/3 | ! ! | | | 1 1 | 1 | | ; 20 | ! |
| 05-6-2195-2 | : EPD&C-5908 | 11 | 3/1R | , ! P | NA | p | 11 | , | | 7 | 1 |
| W3-6-2173-2 | : EPD&C-5909 | 1 ! 1 1 | 3/1R | | NA | | 1; | 1 | 1 | ; 7 | i |
| | : EPD&C-5912 | 11 | 3/1R | | NA | | 11 | 1 | ; | 1 7 | } |
| | : EPD&C-5913 | 11 | 3/1R | | NA | | 1 1 | 1 | ! | 1 2,7,8 | 1 |
| | EPD&C-5916 | 11 | 3/18 | | NA | | 11 | 1 | ! | 1 2,7,8 | i |
| | : EPD&C-5917 | 11 | 3/1R | | NA | P | 1 1 | 1 | 1 | 1 2,7,8 | 5 |
| | EPD&C-6087 | 11 | 3/1R | | NA | Р | 13 | 1 | 1 | 1 7 | ; |
| | EPD&C-6088 | 1: | 3/1R | ; P | NA | P | 11 | 1 | 1 | 1 7 | ì |
| | EPD&C-6091 | 11 | 3/1R | P | NA | P | ; ; | 1 | ì | 1 7 | 1 |
| | : EPD&C-6092 | ; ; | 3/1R | ; P | NA | P | 11 | 1 | 1 | 1 2,7,8 | ; |
| | : EPD&C-6095 | 11 | 3/1R | 1 P | NA | P | ; ; | 1 | i j | 1 2,7,8 | 1 |
| | : EPD&C-6096 | 1 1 | 3/1R | | NA | | 1 1 | 1 | 1 | 1 2,7,8 | |
| | EPD&C-6267 | 11 | 3/1R | | NA | | 11 | - / | | 1 7 | |
| | EPD&C-6269 | 1 1 | 3/1R | | NA | | 1 1 | 1 | 1 | 1.7 | • |
| | : EPD&C-6271 | : | 3/18 | | | | 11 | 1 | | 17 | |
| | EPD&C-6273 | 11 | 3/1R | | | | 11 | , | 1 | 1 2.7,8 1 2,7,8 | |
| | : EPD&C-6275 | 11 | 3/1R | | | ı P | 11 | - I | i I | 1 2,7,8 | |
| | EPD&C+5277 | 1 1 | 3/1R | | NA F | r p | 1 5 | 1 | 1 | : 14750 3 | |
| 05-6-2197-1 | EPD&C-5693 | 11 | 3/1R 3/1R | 1 P | F | р Г | 11 | 1 | : ! | ; 0 | |
| | : EPD&C-5696 | 1 | 3/1R | | | P | ! ! | i F | • | 3 | i |
| | : EPD&C-5697 : EPD&C-57 00 | 11 | | 1 P | | , 5 | 11 | 1 | | 1 0 | 1 |
| | ; EPD&C-5701 | !! | 3/1R | | | 5 | 1 1 | 7 | | 3 | |
| | : SPD&C-57 04 | 11 | 3/1R | | | ۶ | 11 | 1 | 1 | 9 | ! |
| | : EPD&C-5739 | 1 ! | 3/18 | | | Þ | 11 | 1 | ; | ; G | : |
| | EPD&C-5742 | 1 1 | 3/1R | | | 9 | | / | 1 | . 2 | ; |
| | : EPD&C-5743 | 1.1 | 3/18 | | | P | 1 k 1 k | 1 | 2 2 | 9 | |
| | : SPD&C-5746 | ; ; | 3/1R | ; ; | : ; | Ď | i ! } I | Í | i i | i ĝ | I |
| | EPD&C-5747 | 11 | 3/1R | | | P | !! | 1 | ļ ! | ; a | ì |
| : | EPD&C-575 0 | 1 1 | 3/1R | 1 6 | F | Þ | 1 1 | 1 | 1 | . B | į. |
| | : EPD&C-5769 | !! | 3/1R | | | 2 | 1 1 | 1 |) | : 0 | |
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| | EPD&C-5776 | | 3/1R | | | | • | !! | | ! | | | | 0 | | , t |
| | : EPD&C-5777 | | 3/1R | | | F | Р | 1 1 | | | | | | 0 | | 1 |
| | : EPD&C-5780 | } | | | | F | P | • 11 | | i | | | | 0 | | ! |
| 05-6-2197-2 | : EPD&C-5694 | | 2/1R | | | F | Р | | 1 | 1 | | | | 14 | • | ! |
| | EPD&C-5695 | 1 1 | 2/1R | <u>}</u> | P | F | Р |)) | 1 | ? | | | | 14 | | ! |
| | : EPD&C-5698 | 1 1 | 2/1R | ì | P | F | Р | !! | 1 | ! | | | | 14 | | - |
| | : EPD&C-5699 | 1 1 | 2/1R | 1 | P | F | P | ; ; | 1 | ; | | | | 14 | | } |
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| | EPD&C-5740 | | | i | P | F | Ρ | 11 | 1 | 1 | | | ; | 14 | | ! |
| | : EPD&C-5741 | 1 ! | | ; | P | F | Ρ | ! ! | 1 | 1 | | | ŀ | 14 | | ! |
| | : EPD&C-5744 | ;; | | | | F | Ρ | 1 1 | 1 | ; | | | ļ | 14 | | 1 |
| | : EPD&C-5745 | ;; | | | | F | Ρ | ;; | 1 | ì | | | ; | 14 | | ; |
| | : EPD&C-5748 | 11 | | | | • | Ρ | 11 | / | ŧ | | | | 14 | | ; |
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| | EPD&C-5771 | 11 | | | | | P | ;; | 1 | | | | | 14 | | ! |
| | : EPD&C-5774 | | 2/1R | | | • | P | 11 | 1 | 1 | | | | 14 | | 1 |
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| 15-6-2197-3 | : EPD&C-5693A | 1 i | | | | r n | ۲ 0 | 11 | / | | | | | 14 | | 1 |
| 10 0 21// 3 | EPD&C-5696A | 11 | 3/1R 3/1R | | | r P | P | 11 | / | i ı | | | i | - | • | ! |
| | : EPD&C-5697A | 1 1 | 3/1R | | | • | r P | 11 | / | i | | | | 0 | | i |
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| | EPD&C-5701A | 11 | 3/1R | | | | , P | 11 | , | 1 | | | | 0 | | • |
| | EPD&C-5704A | 11 | 3/1R | | | r P | , p | 11 | , | ! | | | • | 0 | | <u>;</u> , |
| | EPD&C-5739A | !! | 3/1R | | | P | P | !! | , | • ! | | | | 0 | |) ! |
| | EPD&C-5742A | | | | | p p | , p | 11 | / | 1 | | | • | 9 | | ! |
| | ! EPD&C-5743A | | 3/1R | | | P | | 11 | / ! | : | | | | 0 | | ! |
| | EPD&C-5746A | | 3/1R | | | ρ | | 11 | / |] | | | i i | - | | ! |
| | : EPD&C-5747A | ! ; | 3/1R | ļ P | į | p | P | 11 | / | | | | | - 0 | | |
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| | : EPD&C-5769A | 1 1 | 3/1R | P | F | P | Р | 1: | / } | | | | | 3 | | |
| | EPD&C-5772A | 11 | 3/1R H | P | į | • | ρ | ! 1 ! ! | 7 1 | | | | : | 7 | į | |
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| | : EPD&C-6042 | -11 | | | B (| C | | HW/F | A B C | (SEE LEGEND CODE) | } :=}====: |
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| | ; EPD&C-6215 | 1 1 | 3/3 : | | | | 1 1 | 1 | 1 | : 0 | 1 |
| | : EPD&C-6216 | 11 | 3/3 3 | | | | | 1 | } | 1 0 | ; |
| | : EPD&C-6217 | 11 | 3/3 | | | | 11 | 1 | ! | 1 0 | 1 |
| | EPD&C-6218 | 1 } | 3/3 | | | | 11 | 1 | 1 | 1 0 | 1 |
| | EPD&C-6219 | 11 | 3/3 | | | | ; ; | 1 | ! | : 0 | |
| | : EPD&C-6220 | 11 | 3/3 | | | | 1 1 | 1 | ; | . 0 | |
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| | : EPD&C-6045 | 1 1 | | | | | 1 1 | 1 | 1 | 0 | i |
| | EPD&C-6046 | | 3/3 | , | | | 1 1 | 1 | } | ! 0 | ; |
| | : EPD&C-6047 | | 3/3 | ì | | | 1 1 | i | | ; 0 | i |
| | : EPD&C-6048 | ; ; | | 1 | | | 11 | 1 | i | ; 0 | i |
| | : EPD&C-6049 | 1 1 | | ! | | | ! ! | / | i | ; 0 | i |
| | : EPD&C-6221 | 11 | | : | | | ; ; | / | i | ; Ø | 1 |
| | : EPD&C-6222 | 1 1 | | 1 | | | 11 | / | ; | ! 0 | 1 |
| | : EPD&C-6223 | 1 1 | | 1 | | | 11 | / | i | 1 0 | , |
| | EPD&C-6224 | !! | | i | | | 1 1 | / | i | : 0 | 1 |
| | : EPD&C-6225 | - 11 | | | | | 11 | - / | i | ; | 1 |
| | : EPD&C-6226 | 11 | | ; | | | 11 | 1, | i | i 10 1: 31 | 1 |
| | : EPD&C-4380 | ; ; | 3/3 | • | | | 11 | 1, | i | 9 A | ! |
| | EPD&C-6381 | : : | | | | | 11 | | ! | | : |
| | EPD&C-6382 | : : | 3/3 | • | | | 11 | / | ; 1 | . A | ! |
| | EPD&C-6383 | ; ; | 3/3 | i | | | 11 | 1 | 1 | ; 0 | ! |
| | ; EPD&C-6384 | i i | 3/3 3/3 | i 1 | | | 1 1 | , | 1 | ; 2 | : |
| | : EPD&C-6385 | 11 | | 1 | | | !! | 1 | • | ; 0 | } |
| 05-6-2201-1 | : EPD&C-6430 | 11 | | 1 | | | 1 } | , | ! | ! 0 | } |
| | : EPD&C-6431 | 11 | | l l | | | 11 | 1 | ! | 1 0 | 1 |
| | : EPD&C-6432 : EPD&C-6433 | !! | | t t | | | 11 | 1 | ! | . 0 | ; |
| | : EPD&C-6434 | 1 1 | | 1 | | | 11 | 7 | į. | . <u>-</u> ! 0 | ! |
| | : EPD&C-6435 | 1 1 | | : | | | | 1 | | 3 | |
| | : EPD&C-5436 | | | | | | 11 | j. | 1 | 1 0 | |
| | EPD&C-6437 | : | | | | | 11 | 1 | 1 | 1 0 | į |
| | : EPD&C-6438 | | | į | | • | 11 | 1 | ! | 1 3 | t : |
| 95-6-2201- 2 | EPD&C-6439 | 1 | | 1 P | NA | Ρ | 11 | 1 | 1 | 1 19 | |
| DO S TINI T | EPD&C-6440 | 1 | | | | Ρ | 1 1 | 1 | ! | 1 19 | : |
| | EFD&C-6441 | 1 | 3/1R | ; P | NA | ۴ | 1 1 | 1 | | 1 19 | i |
| | EPD&C-5442 | ı | 3/1R | 1 8 | NA | þ | 1 1 | 1 | 1 | 1 19 | |
| | EPD&C-6443 | ļ | 3/1R | 1 P | NA | F | 13 | 1 | ! | 1 19 | |
| | : EPD&C-6444 | 1 | 1 3/1R | ; p | NA | P | ! ! | 1 | ! | 1 19 | |
| | : EPD&C-6445 | 1 | 3/1R | 1 P | NA | ۴ | 1 1 | 1 | ! | 1 19 | ; |
| | : EPD&C-6446 | ; | 1 J/1R | 1 9 | NA | P | 1 1 | 1 | t) | 1 19 | |
| | EPD&C-5447 | ; | | | | | ! ; | 1 | i | 1 19 | |
| 35-5-2202-1 | : EPD&C-6394 | 1 | | | | | 1 1 | | | 1.15 | F F |
| | : EPD&C-6395 | ; | | | | | : 1 | | <u> </u> | 16 | |
| | EPD&C-6396 | 1 | | | | | 11 | | | 16 | ; |
| | EPD&C-6397 | 1 | | | | P | 1 1 | | 1 | 1.6 | • |
| | EPD&C-6398 | - 1 | | | | P | 11 | | i | 1 16 | |
| | : EPD&C-6399 | 1 | | 1. 7 | ' NA | F | 1 1 | | i | 1 16 | 1 |

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| I NASA I FMEA NUMBER | ; IDA ! ASSESSMENT NUMBER | CRIT | : Si | CREEN B | IS : C : | CRIT | SCREENS | OTHER | ; ISSUE ; |
| ;===================================== | ; EPD&C-6400 | :::====== :: 3/1R | :===: ; | NA | ===¦ P | ;====== ; / | :{ ====== === } | | = |
| | : EPD&C-6481 | | | | | | 1 1 | | !!! |
| ! | EPD&C-6402 | 11 3/1R | P | NA | P : | | ! | | |
| | EPD&C-6483 | | | | ł | 1 / | 1 | : 0 | |
| | EPD&C-6404 | | | | } | | 1 | ; 0 | 1 |
| | : EPD&C-6485 | | | | | / | | ¦ 0 | ! ! |
| | EPD&C-6406 | | | | | / | ì | ; 0 | : : |
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| 1 | | 3/1R | | NA F | | | | 16 | !!! |
| ! : | | 11 3/1R | | NA F | 9 | 1 | | 16 | ! ! |
| | : EPD&C-6280 | !! 3/1R | ; P | NA P | 1 | 1 | | 16 | |
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| | | H 3/2R | , ! P | NA P | | | - | 2 | |
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| • ! | | 11 3/2R | | NA P | | 7 1 | ! | 7 | |
| 1 t | EPD&C-5281 | 1 3/2R | | NA P | | / / | | · · | |
| ! | EPD&C-5282 | 1/2R | P | NA P | | / | ; | 2 | |
| | | 1 3/2R | Р | NA P | 11 | / ! | : 1 | 2 | |
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| NASA 10A CRIT SCREEMS CRIT SCREEMS OTHER FREA NUMBER ASSESSMENT NUMBER HAVF A B C HAVF A B C SEE LEBEND CODE 05-6-2207-1 CPD8C-5307 3/3 0 | |
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| EPBAC-5398 | 1 |
| PPAC-5391 | 1 |
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| SPORC-5848 | ! |
| EPBAC-5844 | 1 |
| EPDAC-5044 | 1 |
| PDAC-5846 | 1 |
| EPDAC-5165 | ž ž |
| EPDAC-5169 | I i |
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| EPDAC-5357 | ! |
| EPDAC-5389 | l 2 |
| EPDAC-5389 | ì |
| EPD4C-53592 | ! |
| EPDAC-53973 | ! |
| S-6-2287-3 | |
| EPDAC-5841A | 1 |
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| | • |
| EPD&C-5166A | ! |
| EPD&C-5168A | , |
| EPDAC-5178A | : |
| EPDAC-5387A | : |
| EPDAC-5399A | i |
| EPD&C-5391A | i |
| EPD&C-5371A | i |
| 05-6-2208-1 EPD&C-5330 3/1R F NA P / 2,8 | i |
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| EPD&C-5333 | • |
| SPD&C-53312 | i |
| SPD&C-5332 | 1 |
| 05-6-2209-1 | i |
| SPD&C-5301 | 1 |
| EPD&C-5300 | 1 |
| EPD&C-5300 | ! |
| 05-6-2210-1 | ! |
| 05-6-2211-1 EPD&C-5303 3/1R P NA P / 1.6 | |
| 25-6-2211-1 EPD&C-5049 2/1R P NA P / 1,6 1,6 | i |
| EPD&C-5182 | i |
| EPD&C-5371 | 1 |
| 05-6-2211-3 EPD&C-5050 2/1R P P P / 6 | 1 |
| EPD&C-5183 | ; |
| EPD&C-5372 | 1 |
| 35-o-3212-1 EPD&C-5047 3/1R P NA P / 6 | ! |
| EPD&C-5180 | |
| EPD&C-5369 | ; |
| 05-6-2212-2 EPD&C-5047A 2/1R P NA P / 0 | ! |
| -89-2-27711-7 | į |
| EPDAC-5180A 2/18 P NA P / 7 | 1 |
| Crown-greek :: 27 by 1 mg 5 | 3 |
| EPD&C-5369A | 1 |

| MED I | NTIFIERS | | | | | | | | | MENDATIONS # | |
|---------------------|------------------------------|--------------------|--------------|-----|-------------|------------|------------|---------------------------------------|---------|---------------------------------------|-------------|
| NASA FMEA NUMBER | : IDA : ASSESSMENT NUMBER | 11 | CRIT HW/F | 1 | SCRE A B | ENS C | 1 | CRIT | SCREENS | (SEE LEGEND CODE) | ! ISSUE |
| 05-6-22 12-3 | EPD&C-5048 | :;; : ;; | | | | === A P | | | | ===================================== | ====== ! |
| | : EPD&C-5181 | | 3/1R | ; ; | P N | A P | 1 | 1 / | | 1 6 | ! |
| | : EPD&C-5370 | 1 † | 3/1R | } } | P N | AΡ | ŀ | / | } | 1 6 | ! |
| 05-6-2213-1 | | ;; | | } } | P F | P | 1 | / | ; | 1,2,6 | ! |
| | | 11 | | | | | ! | ! / | | 1,2,6 | <u> </u> |
| AF / AB/ = 5 | EPD&C-5622 | !! | | | | | 1 | - | | 1,2,6 | } } |
| 05-6-2213-2 | EPD&C-5459A | 11 | | | • | | 1 | | • | ; 0 | ! ! |
| | : EPD&C-5524A | 11 | | | | | 1 | | | ; Ø | 1 |
| 05-6-2213-3 | | 11 | | | P | P | 1 | | | 0 | ! |
| MO-0-5519-9 | | 11 | | | | | ! | | | 0 | ! ! |
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| 05-6-2214-1 | | 11 | | ; | | _ | 1 | • | | | |
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| 05-6-2214-2 | | | 2/1R | | | | j ; | | | | |
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| 05-6-2214-3 | | !! | | | f | F | 11 | - | ! ! | 9 9 | |
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| 05-6-2215-1 | | | 3/18 | ! P | NA | P | 1: | | | 5 | |
| | | | 3/1R | | | | 11 | 1 | - | 5 | |
| | | | 3/1R | | | | !! | , | | 6 ! | |
| 85-6-2215-2 | | | 3/1R ; | | | Р | - 11 | , | | 6 ! | |
| | : EPD&C-6003 | ! ! | 3/1R : | P | NA | Р | 1 1 | / | · | 6 | |
| | | f | 3/1R : | P | NA | Р | 1 [| / | | 6 : | |
| 05-6-2215- 3 | | | 3/1R : | | NA | P | ! ! | / | | 9 | |
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| 35-6-2216-1 | | | 3/1R 1 | | NA | | 1 1 | / ! | ; | 2,6 | |
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| 35-6-2216-2 | | | 3/1R | | | P | | / / | | 2,5 | |
| 10_0_1719_7 | | | 3/18 : | | | P | | / | | 2,5 | |
| | | | 3/1R | | NA | | 11 | / | | 2,6 | |
| 15-5-2217-1 | | | 3/1R 3/3 | ٢ | NA | ٢ | 11 | / 1 | | 2,6 | |
| 15-6-2217-2 | | | 3/3 1 | | | | 11 | / ! | | 9 | |
| 15-6-2221-1 | | | 3/3 1 | | | | 11 | / i / ! | i | 9 | |
| 15-6-2223-1 | | | 3/1R | p | P | ٥ | 11 | <i>f</i> 1 | i | 1 | |
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| 5-6-2223-2 | · | | 3/1R ! | | p | P P | ! | / i | 1 | 5 ! | : |
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| | EPDAC-6261 | | J/1R | | ۶ | | 11 | 1 1 | 1 | 6 | ! |
| 5-6-2223-3 | EPD&C-5931A | | I/18 | | Ρ | | 11 | 7 1 | : ! | 8 | ; |
| | EPD&C-6084A ; | | 3/1R | | ρ | | 11 | 1 | | 0 | ! |
| | EPD&C+6260A ; | | 3/1R | p | P | ٩ | : } | 7 | | 9 | ! |
| 5-0-2225-1 | EPD&C-5072 | | 3/3 | | | | ! ! | 7 ! | • | 0 | : |
| | EPD&C-5073 ; | | 3/3 | | | | : 1 | 1 1 | i | ð | |
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| I DE! | NTIFIERS | 11 | NA | SA | | | _11 | | | IOA RECOMM | ENDA | | |
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| NASA FMEA NUMBER | IOA ASSESSMENT NUMBER | | IT /F | SCF A | | NS C | | CRIT HW/F | | SCREENS : | (S | OTHER EE LEGEND CODE) | ISSUE |
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| | ; EPD&C-5417 | | 3/3 : | | | | 1 | | | ! | 1 0 | | 1 |
| | : EPD&C-5418 | | 3/3 | | | | 1 | | | 1 | . 0 | | 1 |
| 05_1_0001_t | ; EPD&C-5308 | | 3/1R | P | NA | P | 1 | | | 1 | 1 6 | | i t |
| 05-6-2226-1 05-6-2226-2 | ; EPD&C-53 0 9 | | 2/1R | | | P | 1 | | | l } | 1 6 | | 1 |
| 05-6-2226-3 | ; EPD&C-5308A | | 2/1R | | N/ | A P | i | 1 | | 1 | ; 0 | | 1 |
| 05-6-2227-1 | EPD&C-5306 | | 3/1R | | NA | A P | 1 | 1 / | | | 1 6 | | 1 |
| 69-0-1111 1 | ; EPD&C-5310 | | 3/1R | ; P | NA | A P | ! | 1 / | | ! | 1 6 | | ! |
| 0 5-6-2227-2 | EPD&C-5307 | 11 | 3/3 | 1 | | | 1 | 1 / | | 1 | 6 | | i |
| GO O LZZ: Z | EPD&C-5311 | 11 | 3/3 | ! | | | ł | / | | 1 | 1 6 | | } |
| 05-6-222 7-3 | : EPD&C-5306A | 11 | 2/1R | i P | N | A P | 1 | / | | 1 | ; 0 | | |
| 60 0 111; V | EPD&C-5310A | | 2/1R | ; P | N | A P | i | ! / | | 1 | 1 0 | | 1 |
| 95-6-2228-1 | EPD&C-5184 | 1 1 | 3/2R | P | P | Ď | ! | 1 / | | i ! | 1 6 | | i |
| 00 2 222 - | : EPD&C-5373 | : ! | 3/2R | P | P | P | 9 | 1 / | | f 1 | 1 5 | | • |
| 05-6-2228-2 | : EPD&C-5185 | ; ; | 3/3 | } | | | 1 | | 1 | 1 | 1 6 | | i |
| | : EPD&C-5374 | | 3/3 | ł | | | | 1 / | , | | 1 6 | |) ! |
| 95-6-2228- 3 | : EPD&C-5184A | 11 | 2/1R | | | A P | | 1 / | | 1 | 1 6 | | 1 |
| | : EPD&C-5373A | !! | 2/1R | | | A P | | / | | ; | ; b | | ļ |
| 05-6-2230-1 | : EPD&C-5677 | 1 1 | 3/1R | | | | | 1 / | ; | i , | ; Ø | | ! |
| | ; EPD&C-5679 | 11 | 3/1R | | | | | 1 | f ; | • | : W | | |
| | : EPD&C-5681 | 11 | 3/1R | P | P | F | | | i 3 | 1 | 1 0 | | ! |
| 05-6-2230-2 | ! EPD&C-5678 | 11 | 27.0 | 1 | | | | | , | 1 | 1 3 | | |
| | ; EPD&C-568 0 | 11 | 5/3 | 1 | | | | | | | ; § | | |
| | : gpD&C-5482 | 1; | 0/3 0/1R | | : [|) ; | | | i. | | 1 5 | , à | , |
| .05-6-2231-i | : EPD&C-5357 | | 2/1R | | | | - 3 | | I | : | 5 | | i |
| | : EPD&C-5359 | | 3/3 | 1 | | | | : | 1 | | 1.5 | , - | |
| 05-4-2231-2 | : EPD&C-6356 : EPD&C-6358 | | 3/3 | 1 | | | | 11 | , | | 1.5 | | 1 |
| ac . 6670 i | : EPD&C-5960 | 1 1 | 3/3 | 1 | | | | !] | 7 | ì | 3 | | * |
| 85-4-2232-1 | ; EPD&C-5961 | 11 | 3/3 | | | | |) f | 1 | ŀ | 0 | | 1 |
| | EPD&C-5962 | ! ! | 3/3 | : | | | | 1 1 5 1 | į | ; | . 0 | | : |
| | EPD&C-5963 | 11 | 3/3 | | | | | ! ! | 1 | ! | : 3 | | 1 |
| ! ! | EPD&C-6318 | 1 1 | 3/3 | : | | | | i 1 i 1 | £. | * | : 0 | | 1 |
| ! | EPD&C-6319 | ! } | 3/3 | 1 | | | | 1 1 2 1 | I | t | 1 0 | | : |
| | EPD&C-6320 | 11 | 3/3 | * | | | | 1 1 | 1 | | 1 0 | | |
| | EPD&C-6321 | 1 1 | 3/3 | ! | | | | 11 | 1 | | 1 2 | | |
| 25-6-2233-1 | EPD&C-5260 | ii | 2/2 | i | | | | | I | 1 | 1 5 | | |
| 1 05-6-2233-2 | EPD&C-5259 | 1 1 | 3/2R | 1 1 | P | NA | Ρ | 11 | 1 | İ | ! 3 | | 1 |
| 25-6-2234-1 | : EPD&C-5258 | 1 1 | 2/2 | 1 | | | | 11 | 1 | ! | 1 5 | | |
| 35-6-2234-2 | : EPD&C-5257 | : 1 | 21/2 | 1 | | | | 11 | | i | 1 6 | | |
| 25-6-2235-1 | : EPD&C-5648 | : : | 3/18 | 1 | ř | ΝÀ | P | 11 | 1 | | į | . ii | |
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| NASA FMEA NUMBER | : IOA : ASSESSMENT NUMI | BER : | CRIT | SI | CREE B | NS C | | CRIT | SCREENS | OTHER | ; ISSU |
| 05-6-2235-2 | : EPD&C-6649 | | :====== : 2/1R | | ==== NA | | ; ; =: ; ; | | | | : =====: |
| 05-6-2236-1 | : EPD&C-6650 | | | | | | !! | | | ; 10 | 1 |
| 05-6-2236-2 | : EPD&C-6651 | | | | | | - 11 | | • | : 0 | } |
| 05-6-2237-1 | : EPD&C-6652 | ; | 1 2/1R | ; P | Ρ | Р | 11 | | | . · · | 1 |
| 05-6-2237-2 | : EPD&C-6653 | | | | | | | | | ! 10 | ! |
| 05 -6-2237-3 | EPD&C-6654 | | | 1 | | | 11 | • | | 1 6 | 1 |
| 05-6-2238-1 | EPD&C-6655 | } | 1/1 | 1 | | | 11 | | | 1 6 | 1 |
| 05-6-2238-2 | EPD&C-6656 | † 1 | 1 3/1R | ; P | p | Р | 11 | 1 | | 5 | ! |
| 0 5-6-2238-3 | : EPD&C-6657 | ! | / | t j | | | 1 1 | 1 | | | ! |
| 85-6-2239-1 | EPD&C-6692X | 1 | 3/3 | 1 | | | 11 | 1 | | . <u>-</u> ; 0 | ! |
| 05-6-2240-1 | EPD&C-5318 | | 1 3/3 | ł | | | 11 | 1 | | 1 22 | ! |
| 05-6-2240- 2 | ; EPD&C-5318A | ; | 2/1R | P | NA | ρ | 1 1 | 1 | | 22 | ! |
| 05-6-2240-3 | EPD&C-5319 | l F | 3/3 | i i | | | 1; | 1 | | 1 22 | ! |
| 05-6-2241-1 | : EPD&C-5051 | 1 | 3/1R | P | NA | P | ; ; | 1 | | 2 | 1 |
| | : EPD&C-5174 | ; | 3/1R | P | NA | P | ;; | 1 | | 1 2 | } |
| | : EPD&C-5367 | - { | 3/1R | P | NA | P | 11 | . / | | 2 | · ! |
| 05-6-2241-2 | : EPD&C-5052 | 1 | | ; | | | 11 | / / | } | 0 | |
| | : EPD&C-5175 | 1 1 | 3/3 | | | | ! ! | / : | 1 | 0 | ! |
| | : EPD&C-5368 | 1 1 | 3/3 | | | | 11 | / ; | } | 9 | { |
| 05-6-2242-1 | : EPD&C-5028 | 1 1 | 3/1R | P | P | P | 11 | / : | ; | 2 | ! |
| | : EPD&C-5139 | ; ; | 3/1R | Ρ | P | Ρ | 1 1 | / } | ! | 2 | |
| 3.F / | SPD&C-5364 | 1 1 | | P | P | Ρ |) I | 1 1 | 1 | 2 | |
| ð5-6-2243-1 | EPD&C-5189 | 1 1 | | | | | 11 | 7 1 | 1 | 9 | ! |
| 05 / 0046 / | EPD&C-5378 | 11 | | | | | 11 | 1 1 | i } | 8 | |
| 05-6-2245-1 | : EPD&C-5831 | | 3/1R : | | NA | P | 11 | / | ; | 2 | |
| | EPD&C-5833 | 11 | | | NA | | 1 1 | / / | 1 | 2 | |
| | EPD&C-5835 | 11 | | | NA : | | 11 | / : | | 2 | |
| | : EPD&C-5996 | | 3/1R | | NA : | | | / } | | 2 | |
| | FPD&C-5998 | | 3/1R | | NA | | 1 1 | / } | | 2 | |
| | : EPD&C-6000 | | 3/1R | | NA I | | 1 1 | / | 1 | 2 | |
| | EPD&C-4174 EPD&C-6179 | | 3/1R 1 | | | | ! ; | / | ŀ | 2 | |
| | : EPDAC-5180 | | 3/1R | | | | 11 | 7 1 | | 2 | |
|)5-6-2245-2 | EPD&C-3832 | 11 | | | NA S | | | 7 1 | | 1 | |
| W 3 1170 1 | : EPD&C-5834 | 3 † E # | 3/1R | | NA A | | 1 1 | | | 5 | |
| | : EPD&C-5836 | 1: | 3/1R 3/1R | | NA F | | 11 | / 1 | : | 5 | |
| | EPD&C-5997 | 11 | 3/1A + | | NA S | | : i | | : | <u>.</u> | |
| | EPD&C-5999 | !! | 3/1R | | NA S NA E | | 11 | - / i | i | 5 | |
| | EPD&C-6901 | : 1 | 3/1R 1 | | MA F | | 11 | / i | | 5 | |
| | EFD&C-6177 | 11 | 3/1R | | NA F | | | / i | | E : | |
| | SPD&C-5178 | : 1 | 5/1R | | MA P | | | 1 · · · · | | <u> </u> | |
| | EPD&C-6181 | 11 | 3/1R | | NA P | | : 1 | 7 1 | , | 5 | |
| 5-6-2247-1 | EP0&C-5078 | | 1/3 | • | י מויי | | 1 | 7 1 | | v i B | |
| | SPD&C-3079 | | 1/3 | | | | : | 7 1 | | 9 3 | |
| | : EPD&C-5197 | : ! | 3/3 | | | | 1 | / ! | | e , ∮1 | |
| | EPD&C-5198 | 11 | 3/3 : | | | | : ! | 7 1 | | 년 원 | |
| | EPD&C-5403 | : 1 | 3/3 | | | | 1 | 7 | · | 9 1 | |
| | # EPD&C-5404 | 11 | 3/3 | | | | 1 | 7 t | · | u B | |
| 5-6-2253-1 | EPD&C-5029 | 11 | 3/3 | | | | ; | 1 : | | 번 . 개 | |
| | EPD&C-5137 | 11 | 3/3 : | | | | 1 | 7 1 | | 2 | |
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| NASA FMEA NUMBER | ASSESSMENT NUMBER | | A B C | H H₩/F | ; SCREENS ; A B C | | ISSUE |
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| 05-6-2253-1 05-6-2255-1 | ; EPD&C-5019 | 11 3/3 | | 11 / | 1 | ; 0 | ! |
| 80-0-7700 I | ; EPD&C-5145 | 11 3/3 | 1 1 | 11 / | 1 1 | ; 0 | † i |
| | : EPD&C-5360 | 11 3/3 | <u> </u> | 11 / | 1 | : 0 | 1 |
| 95-6-2256-1 | EPD&C-5488 | 11 3/3 | ž Į | 11 / | 1 | ! 0 | i |
| J | EPD&C-5553 | 11 3/3 | 1 | 11 / | 1 | 1 0 | 1 |
| | : EPD&C-5604 | 11 3/3 | • | 11 / | ! | 1 0 | ! |
| 05-6-2257-1 | : EPD&C-5009 | 11 3/3 | ·=' | 11 / | 1 | ; 0 | i |
| | EPD&C-5127 | 11 3/3 | | 11 / | 1 | ; 0 | ; |
| | ; EPD&C-5348 | 11 3/3 | ! | 11 / | ł | 1 0 | í |
| 05-6-2259-1 | : EPD&C-5944 | 11 3/3 | i | 11 / | | 1 0 | i |
| | : EPD&C-5945 | 11 3/3 | 1 | 11 / | i | 1 0 | i I |
| | EPD&C-5946 | 11 3/3 | 1 | 11 / | i | } | } ! |
| | : EPD&C-6197 | 11 3/3 | i | | 1 | ; 0 | 1 |
| | : EPD&C-6108 | 11 3/3 | , | 11 / | i | : 8 | |
| | ; EPD&C-6109 | 11 3/3 | 1 | 11 / | i i | 1 0 | 1 |
| | : EPD&C-6305 : EPD&C-6306 | 11 3/3 | 1 | 11 / | , ! | ; 0 | 1 |
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| as / 22/8 t | : EPD&C-6307 : EPD&C-5022 | 11 3/1R | P NA P | 11 / | į. | 1 2 | ! } |
| 05-6-2260-1 | : EPD&C-5023 | 11 3/1R | | 11 / | 1 | 1 2 | ì |
| | : : EPD&C-5024 | 11 3/1R | | 11 / | 1 | 1 2 | 5 |
| | EPD&C-5140 | 11 3/1R | | 11 / | 1 | 1.2 | ì |
| | : EPD&C-5141 | 11 3/1R | | 11 / | <u>;</u> 1 | 1 2 | ł |
| | EPD&C-5142 | 11 3/1R | I P NA P | 11 / | 1 | 1 2 | ; |
| | EPD&C-5143 | :: 3/1R | I P NA P | 11 / | ! | 1 2 | 1 |
| | EPD&C-5144 | 11 3/1R | I P NA P | H = I | 1 | 1 2 | } |
| | : EPD&C-5361 | 3/1R | I P NA P | 11 / | 1 , | ; 2 | ; |
| | : EPD&C-5362 | 11 3/1R | I P NA P | H = I | ; | † 2 | i |
| 85-6-2261-1 | : EPD&C-5080 | 11 3/1R | | H = I | 1 | 18 | ; |
| | : EPD&C-5199 | 11 3/1R | | 11 / | | 1 18 | 1 |
| | EPD&C-5406 | 3/1R | IP F P | 11 / | | 18 9 | 1 |
| 85-6-2261-2 | : EPD&C-5001 | 11 3/3 | į | | : | , a } ∂ | : |
| | ; EPD&C-52 00 | 11 3/3 | 1 | 11 / | : ! | ; 0 ; 0 | |
| de (2010 1 | : EPD&C-5405 | 11 3/3 11 3/1R | ; ; | 11 / | 1 | 1 2 | ! |
| 95-6-2262-1 | : EPD&C-579 0 : EPD&C-5791 | 11 3/1R | | 11 / | | 3 | ; |
| | : EPD&C-5792 | 11 3/1R | PFP | 11 / | ! | 1 0 | ! |
| | EPD&C-5793 | 11 3/1R | | 11 / | ! | 1 0 | ŀ |
| • | : EPD&C-5794 | 11 3/1R | | 11 / | 1 | 1 2 | į. |
| | : EPD&C-5795 | 11 J/18 | | 11 / | t f | ; Ø | ! |
| | EPD&C-5796 | 11 3/1R | | 11 / | į. | : 0 | ; |
| | EPD&C-5797 | 11 3/1R | | $\Pi = I$ | 1 | } 3 | |
| | EPD&C-5798 | 11 3/15 | | 11 / | | 1 0 | ! |
| 05-6-2263-1 | EPDAC-5057 | 11 I/1F | | 11 / | 1 | 1,18 | : |
| | : EPD&C-5076 | 11 2/15 | | 11 / | | 1,18 | 1 |
| | : EPD&C-5172 | | IP F P | 11 / | 1 | 1,18 | |
| 05-6-2263-2 | EPDAC-5058 | 11 3/3 | 1 | 11 / | 1 | B 0 | : |
| | : EP0&C-5077 | 11 3/3 | 1 1 | 11 / | i | : Ø : Ø | 1 |
| | EPD&C-5173 | 11 3/3 | ř | 11 / | i t | | 1 |
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| 05-6-2264-1 | -, EPD&C-5941 | =;; } | | | | | === P | ;;= ;; | / | | 1 2 | ;====== : |
| | EPD&C-5942 | 11 | 3/1R | - | | - | P | 11 | , | | 1 2 | 1 |
| | : EPD&C-5943 | 1 1 | 3/1R | i ! | P | P | Р | 11 | / | | 1 2 | 1 |
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| 05-6-2265-1 | | 11 | | | | P | r P | 11 | • | i ! | ; 2 ; 0 | ; |
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| 05 -6-2265-2 | | | 3/1R | | | F | P | 11 | • | | ! 2 | : |
| | | | 3/1R | | | F | P | 11 | | | 2 | 1 |
| | EPD&C-6263 | !! | 3/1R | 1 | P | F | P | 11 | 1 | 1 | 1 2 | 1 |
| 85-6-2270-1 | | ; ; | 3/3 | ŀ | | | | ; ; | | ! ! | ! 0 | 1 2 |
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| 05-6-2271-1 | | 1 1 | 3/3 | ; | | | | 13 | | 1 | 0 |) |
| 00-0-22/1-1 | | 11 | 3/3 3/3 | ; | | | | 11 | | 1 | 0 | |
| 05-6-2272-1 | | 11 | 3/3 | i | | | | 11 | / | i 1 | . 0 | ; ; |
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| | EPD&C-5650 | 1 ! | 3/3 | 1 | | | | 11 | / | | 0 | · |
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| 05-6-2276 - 1 | | | 2/1R | | | Ρ. | | 11 | · / | ! | 1 | |
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| | : EPD&C-5396 | 1 | 2/1R | | | = | | i i | 7 | | 11 | |
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| 3 5-6-2279-1 | | | 3/1R | | P |) | | 1 1 | / 1 | į | 2 | |
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| IDE | NTIFIERS | | NA | | | | -!! | | IDA RECOM | MENDATIONS * | |
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| NASA FMEA NUMBER | ; IOA ; ASSESSMENT NUMBER | 11 | CRIT : | SC A | REE B | NS C | 11 | HW/F | | (SEE LEGEND CODE) | ISSUE |
| 0 5-6-2279-1 | : EPD&C-5559 | - ; ; | | | Р | P | ;; | 1 | 1 | 1 2 | 1 |
| | : EPD&C-5610 | 11 | 3/1R | P | Ρ | Ρ | 11 | | • | 1 2 | 1 |
| 05-6-2280-1 | : EPD&C-5063 | !! | 2/1R | Ρ | Ρ | Р | 11 | | • | 1 5 | 1 |
| | : EPD&C-5194 | 1 ; | 2/1R | Ρ | P | P | ; ; | | 1 | 1 5 | 1 |
| | : EPD&C-5398 | 1 1 | 3/2R | P | Ρ | Ρ | ; ; | | 1 | 1 0 | |
| 05-6-2284-1 | : EPD&C-5686 | 11 | | | Ρ | P | 1 1 | | 1 | 1 0 | i |
| | : EPD&C-5732 | } ; | | | P | Ρ | 1 1 | | 1 | 1 0 | i |
| | : EPD&C-5787 | 1 1 | | | P | P | ! ! | - | ! | 1 0 | i |
| 05-6-2287-1 | : EPD&C-5867 | 1 1 | | | Ρ | P | ; ; | | } | 1 2 | i |
| | EPD&C-5868 | ; ; | | | P | Р | 1; | | } | 1 2 | i |
| | : EPD&C-5869 | 11 | | | P | P | - | | | 1 2 | i |
| | : EPD&C-6032 | 1) | | | Ρ | Ρ | 11 | | | 1 2 | i |
| | : EPD&C-6033 | 1 1 | | | P | P | 1 1 | | 1 | 1 2 | i I |
| | : EPD&C-6034 | 11 | | | P | P | ; ; | | | 1 2 | ! |
| | EPD&C-6212 | 11 | | | P | P | 11 | | i | 1 2 | ! |
| | : EPD&C-6213 | 1 ! | | | P | P | 11 | | ; | 1 2 | , |
| | : EPD&C-6214 | 11 | | P | P | P | 11 | | ; | 1 2 | I I |
| 05-6-2288-1 | ; EPD&C-5188 | 1 1 | | : P | P | P | - ! ! | | i | 1 2 | 1 |
| | EPD&C-5377 | | | ۲, | ۲ | Ρ | ; | | i ! | 1 5 | 1 |
| 05-6-2289-1 | EPD&C-5322 | | | i | | | 1 1 | | i | 15 | 1 |
| | : EPD&C-5323 | !! | | i | | | # 1 # 1 | | 1 | 1 V 1 E | : |
| | : EPD&C-5324 | 1 1 | | i 1 | | | 1 1 |) / (/ | 1 | 1.5 | 1 |
| | : EPD&C-5325 | i i | 2/2 3/1R | i i n | F | P | 1 | 1 / 1 / | i 1 | 1 0 | į. |
| 05-6-2291-1 | : EPD&C-5501 | 1 1 | | _ | | r P | 1 | | 1 | 1 0 | |
| | : EPD&C-5572 | 11 | 3/1R 3/1R | ٠. | | P | | | 1 | ! 9 | 1 |
| AP (2007A) | : EPD&C-5621 : EPD&C-5107 | 1) | | | | • | ! | | ! | ; 0 | 1 |
| 05-6-2293A-1 05-6-2293B-1 | EPD&C-5246 | 1 1 | | 1 1 ! | ' | , | ; | | ! | . 0 | 1 |
| | : EPD&C-5446 | !! | • • • | ! ! P | و ا | P | | | | 1 2,5,10 | ! ! |
| 05-6-22930-1 05-6-2294-1 | : EPD&C-5096 | 1 1 | | 1 | 1 | • | ! | | 1 | 111 | 1 |
| 03-0-2274-1 | ! EPD&C-5217 | 11 | | 1 | | | | | ! | 1 11 | • |
| | ; EPD&C-5427 | | 1/1 | | | | 1 | 1 / | i | . 11 | į |
| 35-6-2295-1 | : EPD&C-5100 | | | ! ş | 2 | 5 | | 1 / | | : <u>\$</u> | i |
| 8: 4 - 272 - | EPD&C-5232 | | 2/1R | | | ۶ | | |)) | 1 5 | |
| | : EPD&C-5436 | 1 | | | | p | | 1 / |) | 1 5 | • |
| 35-6 - 2297-1 | EPD&C-6028 | i | | | | A P | ; | 1 / | : | 1.5 | 1 |
| | EPD&C-5029 | ! | 1 5/1R | 1 F | N | ΑP | ! | 1 / | 1 | 1.5 | i |
| | EPD&C-6030 | ÷ | 3/1R | F | N | A P | : | ! / | ļ | : S 1 2 | 1 |
| | FPD&C-6031 | - ! | 3/1R | 1 5 | Ñ | A P | : | 1 / | ! | 1 5 | |
| | EPD&C-6078 | i | 3/18 | ; ; | N | A P | ŀ | 1 / | ! | : E 1 U | |
| | : EPD&C-6079 | 3 | 1 3/1R | P |) N | A P | 1 | 1 / | ; ; | 1 5 | |
| | EPD&C-6206 | 1 | 3/1R | [] |) } | A P | 1 | ! / / | 1 | 5.5 | 1 |
| | : EPD&C-6207 | 1 | | 1 7 | | A F | : : | 1 | 1 | 5 | i |
| | : EPD&C-62 08 | i | | | | A P | | | | 1.5 | |
| | EPD&C-5209 | ! | | 1 8 | | A F | | | 1 | 1 5 | |
| | EPD&C-6210 | ; | | . 7 | | A F | | | 1 | : 5 : • | , |
| | EPD&C-5211 | ! | | | | A F | | | | 5 | i |
| | EPD&C-4386 | : | | , , | | A F | | | , | ; 5 | : |
| | : EPD&C-6387 | : | | | | A F | • | • | | 15 | : |
| | . SPD&C-6388 | 1 | | | | À F | | i | : | 1 Q 1 | |
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| 05-6-2298-2 35-6-2299-1 05-6-2300-1 | : ASSESSMENT NUMBER =:=================================== | | HW/F | 1 S | CREI B | C | 11 | CRIT | 1 A | EENS B C | 1 | OTHER (SEE LEGEND C | | ISSUE |
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| 05-6-2298-1 05-6-2298-2 05-6-2299-1 | : EPD&C-6390 | 1 1 | | === | | | _ 1 1 | | | - | | (ALE CEDEND C | י לשעט | ŀ |
| 05-6-2298-2 35-6-2299-1 | | 1.1 | 3/1R | | | ===: A P | ; ; =: ! | | ; ====: ; | ===== | =;= ; | | =====; ! | ===== |
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| 05-6-2298-2 35-6-2299-1 05-6-2300-1 | : EPD&C-5964 | 11 | 3/2R | ; P | P | Ρ | ! ! | 1 | 1 | | } | - | : | |
| 05-6-2298-2 35-6-2299-1 05-6-2300-1 | EPD&C-6137 | † ! } ! | 3/2R | l P | P | Ρ | !! | 1 | 1 | | 1 | 5 | | |
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| ; | | | 3/1R : | | NA | | !! | / | | | 1 5 | | , | |
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| 15 - 6-23 0 3-2 | EPD&C-6484A | 11 | 3/3 ! | | | | 1.1 | <i>)</i> i | | | . 9 | | , | |
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| | SPD&C-5474 | H | 5/1R ± | Ρ | Þ | P | 11 | 7 1 | | | 5 | ؿ | | |
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| IDEN | TIFIERS | | IASA : | 1 | IOA RECOM | MENDATIONS * | |
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| 15-6-2324-2 | : EPD&C-5315A | 11 3/3 | } | 11 / | 1 | : 0 | 1 |
|)J-0 2324 Z | : EPD&C-5326A | 11 3/3 | I F | 11 / | 1 | 1 0 | 1 |
| | EPD&C-5327A | 11 3/3 | ! | 11 / | 1 | ! 0 | 1 |
| 85-6-2325-1 | EPD&C-5708 | 11 3/3 | 1 | 11 / | ! | ; 0 | <u> </u> |
| 00-0-7070-1 | : EPD&C-5710 | 11 3/3 | 1 | 11 / | 1 | ; 0 | 1 |
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| | EPD&C-6564 | 11 3/11 | | 11 / | 1 | 1 2 | |
| | EPD&C-6565 | 11 3/11 | _ | | 1 | ; 2 ; 9 | |
| 0 5-6-2329-2 | : EPD&C-6562A | 3/1 | | 11 / | | : 0 | ! |
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| 05-6-233 0 -1 | ; EPD&C-6558 | | n : 1 1 1 | 11 / | 1 | ; v ; 5 | |
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| | EPD&C-5560 | | RIPEP | 11 / | 1 | 1 5 | |
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| 95-6-2330- 2 | EPD&C-6558A | | RIPPP | 11 / | i | | |
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| 05-6-2331-1 | : EPD&C-5453 | | RIPPP | 11 / | i | 1 2 | 2 |
| | EPD&C-5456 | | RIPPP | 11 / | | 1.4 | : |
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| 35-6-2331-2 | EPDAC-5486 | 11 3/3 | | 11 / | | 3 | 1 |
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| | : EPD&C-6229 | 11 7 | /3 | : | | | 11 | 1 | 1 | | 1 | 3 | ! |
| 35-6-2347-1 | FPD&C-5925 | 11 3 | 73 | 1 | | | 11 | 1 | i | | 2 | 3 | i |
| | : EPD&C-3926 | 11 3 | 73 | ļ. | | | - 1 | 1 | | | i | 3 | |
| | EPD&C-5947 | | 1/3 | ŀ | | | 2.9 | f | i | | | 3 | 1 |
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| | EPD&C-5949 | | 1/3 | 1 | | | 11 | / | 1 | | : | i n | |
| | EPD&C-6116 | | 5/3 | ŀ | | | 11 | 1 | i | | | <u>ទ</u> គ | : |
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| | EPD&C-6118 | | 373 373 | i | | | 11 | 1 | , | | - | 2 2 | |
| | : EPD&C-6119 : EPD&C-6120 | | 573 573 | : | | | | - 1 - 1 | • | | | A | 1 |
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| | EPD&C-5284 EPD&C-6285 | | 373 373 | ! | | | 11 | 7 | • | | | 3 | ! |
| | EPD&C-6286 | | 27 a 373 - | 1 | | | 11 | 1 | , | | | 9 | |
| | EPD&C-6287 | | 3/3 | · · | | | 11 | | 1 | | | a U | |
| | EPD&C-5288 | | 3/3 3/3 | 1 | | | 11 | 1 | 1 | | | | |
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| 89-0-19 47 -1 | : EPD&C-5928 | | 3/3 3/3 | | | | :: | | į | | | - 9 | i i |
| | : EPD&C-6121 | | 3/3 | | | | 1.1 | | 1 | | : | <u>a</u> | ! b |
| | EFD&C-6124 | | 5/3 | ! | | | 11 | | 1 | | 1 | ê | |
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| | EPD&C-6296 | | | | ! ! ! | a | } ! |
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| 15-6-235 4- 1 | EPD&C-5010 | | ; | | | 3 | |
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| 6-2362-1 | : EPD&C-6492 | 11 | 3/3 | } | | | 11 | 1 | 1 | 1 0 | i i |
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| | : EPD&C-6494 | 11 | 3/3 | 1 | | | 1 1 | 1 | ! | 1 0 | i |
| | EPD&C-6495 | 11 | 3/3 | ! | | | 1 1 | 1 | - | ; 0 | į |
| | EPD&C-6496 | 11 | 3/3 | 1 | | | 1 | 1 | 1 | ; 0 | 1 |
| | EPD&C-6497 | 1 1 | 3/3 | 1 | | | 1 | 1 | ! | ; 0 | ! F |
| | ; EPD&C-6498 | 11 | 3/3 | 1 | | | - 1 | / | 1 | ; 3 | , |
| | EPD&C-6499 | 1 1 | 3/3 | : | | | 1 |) | 1 | <u> </u> | į. |
| | EPD&C-5500 | : : | 3/3 | 1 | | | | 1 | 1 | 1 3 | 1 |
| 5-2363-1 | EPD&C-6501 | 1 1 1 1 | 3/3 | 1 | | | | 1 | ! | 1 2 | 3 3 |
| | EPD&C-6502 | 11 | 3/3 | 3 | | | ! | | ! | 1 3 | 1 |
| | SPD&C-6503 | 1 ! | 3/3 | ; | | | : | | 1 | 3 | 1 |
| | : EPD&C-6504 | 11 | 3/3 | 1 | | | | / | <u> </u> | 1 | i |
| | EPD&C-6505 | 1 ! | 3/3 | ; | | | | / | 1 | 1 2 | i |
| | EPD&C-6506 | : 1 : E | 3/3 | i | | | | / | 1 | : 0 | ; |
| | : EPD&C-6507 | 1 1 | 3/3 | į | | | | 1 / | i | : 0 | |
| | EPD&C-6508 | : 1 | 3/3 | į. | | | : | | ! | . ∰ 1 | |
| | EPD&C-65 09 | 11 | 2/3 | \$ 5 | | | | 1 / | i | 1 | 1 |
| | : EPD&C-5510 | | 3/3 | ! | | | | 1 / | ! | - | |
| | EPD&C-5511 | | 3/3 | 1 | | | 1 | |] i | 3 | |
| 5-2385-1 | EPD&C-5498 | | 3/3 | i | | | | 1 / | 1 | 1 | • |
| | EPD&C-5499 | ! ! | 3/3 | 1 | | | | 1 / | F. | 3 | |
| | EPD&C-5565 | | 3/3 | ! | | | | / | | ₹ 3 | į |
| | EPD&C-5586 | | 3/3 | ŀ | | | | j | į | ₹ ∄ | |
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| 05-6-2385-1 | EPD&C-5614 | ;=== ; | ;====== : 3/3 | :=== ¦ | === | ===: | == ¦ ; | | :¦=== ! | === | ===: | =;=: ; | | === ===== |
| | EPD&C-5615 | ; | 3/3 | ; | | | ; ; | | 1 | | | ; (| | ! |
| 05-6-2386-1 | : EPD&C-5687 | ; | 3/1R | 1 8 | Р | ρ | 1 1 | 1 | } | | | 1 (| | |
| | : EPD&C-5689 | ; | 3/1R | ; P | P | Ρ | 11 | 1 | ; | | | 1 (| 2 | |
| | : EPD&C-5691 | 1 | 3/1R | ; P | P | Ρ | 1 1 | 1 | <u>:</u> | | | ; (| 8 | 1 |
| | EPD&C-5733 | 5 1 | 3/1R | 1 P | Ρ | P | 11 | 1 | 1 7 | | | ; [| ð | ; |
| | EPD&C-5735 | 1 | | ; P | Ρ | ٩ | 1 1 | 1 | } | | | 1 8 | 0 | Į. |
| | EPD&C-5737 | 1 1 | | | - | P | 1 1 | | 1 | | | 1 6 | 9 | ; |
| | : EPD&C-5781 | 11 | | | | ٩ | 11 | | ł | | | ; (| 3 | i 2 |
| | : EPD&C-5783 | ; ; | | | | P | ; ; | • | ! | | | 1 2 | 3 | ì |
| 35 / 370/ D | EPD&C-5785 | 1 1 | | | Ρ | P | 1 1 | | ; | | | 1 8 | 1 | 1 2 |
| 05-6-2386-2 | : EPD&C-5688 | !! | | 1 | | | 1 1 | / | 1 | | | ; 0 |) | ; |
| | EPD&C-5690 | 11 | | ! | | | 1 1 | 1 | ! | | | 1 8 | | † 1 |
| | : EPD&C-5692 | ;; | | ; | | | 1 1 | 1 | ; | | | 1 0 | | ł |
| | : EPD&C-5734 | ;; | | i | | | ;; | 1 | i | | | 1 0 | | 1 |
| | : EPD&C-5736 | ;; | | i | | | ;; | 1 | ; | | | : 0 | | 1 |
| | : EPD&C-5738 : EPD&C-5782 | !! | • • • | i | | | 11 | / | ; | | | : 0 | | 1 |
| | : EPD&C-5784 | 11 | ••• | ; ! | | | 13 | / | | | | . 0 | | i |
| | ; EPD&C-5786 | 11 | | i i | | | 11 | /, | ; | | | 1 0 | | ! |
| 05-6-2387A-1 | ; EPD&C-5036 | 11 | | , ' D | NA | | 11 | 1 | ; , | | | 9 | | 1 |
| 0 202777 | : EPD&C-5161 | 11 | 3/1R | | HN NA | | 11 | , | i , | | | 1 | | 1 |
| | EPD&C-5384 | 1 1 | 3/1R | | NA | | - 1 1 | 1 | | | | 1 | | 1 |
| 05-6-2387A-2 | EPD&C-5035 | 11 | 3/3 | ; F | AH | Г | 11 | 1 | • | | | 1 | | i |
| | EPD&C-5160 | !! | 3/3 | , | | | 11 | / |) } | | | . 0 | | ; |
| | : EPD&C-5383 | ;; | 3/3 | ! | | | 11 | / ! | | | | . 0 | | ; |
| 0 5-6-23878-1 | EPD&C-5038 | 11 | 3/1R | P | NA | p | 11 | / ! | | | | 1 8 5 | | i |
| | : EPD&C-5163 | 11 | 3/1R : | | NA | | 11 | / ! | | | 1 | 5 | | i |
| | : EPD&C-5386 | 11 | 3/1R : | | NA | | 11 | / ! | | | : | 5 | | 1 |
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| | : EPD&C-5162 | 1 ! | 3/3 | | | | 11 | / | | | ! | 8 | | ! |
| | EPD&C-5385 | 11 | 3/3 | | | | 1 1 | / / | | | 1 | 0 | | |
| 35-6-238 8A- 1 | : EPD&C-5032 | | 3/1R | | NA | Р | !! | / 1 | | | | 1 | | |
| | : EPDAC-5157 | | 3/1R : | | NA | P | i : | / ! | | | į | 1 | | ; |
| | : EPD&C-5380 | | 3/1R | | NA | p | 1 1 | / 1 | | | 1 | 1 | | ; |
|)5-5-3388A-2 | EPD&C-5031 | | 3/3 (| | | | ! ! | 1 | | | | 0 | | |
| | EPD&C-5156 | | 3/3 + | | | | 1 1 | 1 | | | i | 7 | | |
| F . 37555 | FPD&C-5379 | 11 | 2/3 | | | | 1 1 | / | | | 1 | 3 | | F |
| 15-6-23 88B- 1 | EPD&C-5034 | | 3/1R | | MA | | ! ! | 7 1 | | | 1 | 5 | | į |
| | : EPD&C-5159 | | 3/18 | | NA | | 1 1 | / 1 | | | i | 5 | | 1 |
| 5-6-23 88B- 2 | EPD&C-5382 | 1 1 | 3/1R | P | NΑ | | 11 | f | | | ì | 5 | | : |
| V-0-1000B+7 | : EPD&C-5033 | | 3/3 | | | | 11 | $f = \frac{1}{2}$ | | | 1 | ð | | i i |
| | : SPD&C-5158 | 11 | 3/3 ! | | | | 1 1 | / ; | | | 1 | 7 | | ſ |
| 5-6-2389-1 | EPD&C-5381 EPD&C-5003 | # 1 # 1 # # | 3/3 | - | _ | | 11 | 1 | | | : | 2 | | 1 |
| e e teal I | : EPD&C-5122 | | 3/1R | | | | : : | <i>f</i> + | | | ! | 7 | | |
| | EPD&C-5343 | 11 | 3/1R - | | F | | : ! | / 1 | | | i i | 7 | | • } |
| 5-6-2389-2 | EPD&C-5002 | | 3/1R | ٢ | ۲ | | 1 1 | | | | ; | 7 | | ; |
| e e reet r | : EPD&C-5002 : EPD&C-5121 | | 3/3 3/3 | | | | : : : : | 1 1 | | | ! | 2 | | ; |
| | : EPD&C-3121 : EPD&C-5342 | | | | | | † ! ! ! | 1 : | | | į | 1 | | l I |
| | / WIERROTSOME | 11 | 3/3 | | | | | / ! | | | : | 9 | | : |
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| IDE | NTIFIERS | | ASA | | IOA RECOM | MENDATIONS \$ | |
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| NASA FMEA NUMBER | ; IOA : ASSESSMENT NUMBER | :: CRIT | SCREENS | :: :: CRIT :: HW/F | SCREENS C | OTHER (SEE LEGEND CODE) | ISSUE |
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| 5-6-2389-4 | : EPD&C-5000 | 11 3/3 | 1 | 11 / | 1 | ; 0 | 1 |
| 0 9 1007 7 | : EPD&C-5119 | 11 3/3 | ; | 11 / | 1 | 1 0 | ; |
| | : EPD&C-5340 | 11 3/3 | ! | 11 / | 1 | ; 0 | 1 |
| 5-6-2390-1 | | 11 3/3 | ! | 11 / | 1 | ¦ Ø | 1 |
| 0 0 10:0 1 | : EPD&C-5882 | 11 3/3 | 1 | 11 / | 1 | ; 0 | ; |
| | : EPD&C-5884 | 11 3/3 | 1 | 11 / | } | 1 0 | 1 |
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| | : EPD&C-6053 | 11 3/3 | 1 | 11 / | ! | : 0 | 1 |
| | : EPD&C-6055 | 11 3/3 | 1 | 11 / | 1 | ; 0 | ! |
| | ; EPD&C-6231 | 11 3/3 | 1 | 11 / | i i | ł 0 | 1 |
| | ; EPD&C-6233 | 11 3/3 | ! | 11 / | † 1 | ; 8 | ; |
| | : EPD&C-6235 | 11 3/3 | 1 | 11 / | 1 | : 0 | ; |
| 15-6-23 90- 2 | : EPD&C-5879 | 11 3/3 | } | 11 / | ! | : 0 | 1 |
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| | : EPD&C-6050 | 11 3/3 | 1 | H = I | ; | : 0 | 1 |
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| 36 / 9701.1 | : EPD&C-6578 | 11 3/1R | ; P NA P | 11 / | i | . 0 | ! |
| 05-6-2391-1 | : EPD&C-6580 | 11 3/18 | | 11 / | i | : 0 | 1 |
| | : EPD&C-6582 | 11 3/1R | | 11 / | 1 | 1 0 | ! |
| | : EPD&C-6584 | | I P NA P | 11 / | | 1 0 | 1 |
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| | : EPD&C-6596 | | P NA P | \ddot{H} / | i | . 0 | 1 |
| | : EPD&C-6598 | 1) 3/1F | | 11 / | | 3 | i. |
| | EPD&C-6600 | 3/16 | | 11 / | | : 0 | 3 |
| or / 3781_3 | EPD&C-6579 | 11 3/3 | | # 7 | 1 | | |
| 35-6-2391-2 | EPD&C-65 B1 | 11 3/3 | : | 11 / | | 1 1 | |
| | : EPD&C-6583 | 11 3/3 | : | 11 / | 1 | ð | : |
| | : EPD&C-6585 | 11 3/3 | | 11 / | 1 | t 🗗 | : |
| | EPD&C-5595 | 11 2/3 | 1 | 11 / | | 0 | 1 |
| | : EPD&C-6597 | 11 3/3 | ! | 11 / | 1 | : a | ; |
| | : EPD&C-6599 | 11 3/3 | | 11 / | i | . O | : |
| | EPD&C-6601 | 11 3/3 | | 11 / | | ð | : |
| 35-6-2392-1 | EPD&C-5186 | | | 11 / | ì | ; a | ; |
| 99-0-2012-1 | : EPD&C-5375 | | 1 p 9 9 | 11 / | | ; 0 | <u> </u> |
| 95-6-2392-2 | : EPD&C-5187 | 11 3/3 | | 11 7 | l l | 9 | |
| #UTCT4074T4 | EFD&C-5374 | 11 3/3 | | | 1 | 2 | : |
| 05_1_7797_1 | : EPD&C-5362 | | RIPEE | 11 / | 1 | 5,5,21 | 1 |
| 95-6-2393-1 | : EPD&C-6364 | | ROFP | 11 / | | 5,6,21 | |
| | EPD&C-6366 | | RIPFP | 11 / | į. | 1 5,6,21 | i |
| | : EPD&C-6368 | 11 2/1 | | | | : 5.6.21 | |
| ac : 3707 0 | : EPD&C-6363 | 11 3/3 | | 11 / | ! | 0 | ! |
| 95-6-23 9 3-2 | : 2FD&C-5365 | 11 3/3 | | 11 7 | 1 | 2 | 1 |
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| | : EPD&C-6369 | 11 3/3 | 5 | | | | 11 | | i | | | . 0 | | ! |
| 3 5-6-2394-1 | : EPD&C-5264 | 11 3/2 | 2R | Р | Ρ | Ρ | 11 | | | | | . 0 | | ! |
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| 85- 6-239 4- 2 | : FPD&C-5265 | 11 3/3 | 1 | | | | ;; | | 1 | | | 0 | | |
| | : EPD&C-5293 | 11 3/3 | 1 | | | | 1 1 | 1 | ; | | | 0 | | } |
| ð5-6-23 95- 1 | : EPD&C-5267 | 11 3/2 | PR 1 | P | NA | P | 1 1 | 1 | ; | | | 2 | | |
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| | EPD&C-5667 | 11 3/1 | R | P | F | p | | 7 | * | | ; | 7 | | 1 |
| | EPD&C-5669 | 11 3/1 | 3 ; ; | P | F | p | 11 | 1 | | | 1 | 7 | | |
| | : EPD&C-5671 | 3/1 | 7 8 | P | F | 2 | 11 | 1 | • | | į | 7 | | |
| | EPD&C-5673 | 3/1 | 7 : 1 | - | F | 5 | : ; | 1 | | | ! | 7 | | |
| 5-6-2472-1 | EPD&C-5564 | 1 3/3 | <u> </u> | | | | 11 | 1 | | | ; | 2 | | 1 |
| | EPD&C-5666 | 1 3/3 | ; | | | | 1 1 | j | ! | | ; | 3 | | 2 |
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| 5-6-2474-1 | | 3/11 | | | | ρ | | / ! | | | ; | 7 | | |
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| 5-5-2475-1 | | 1 3/3 | i | | | | 11 | / ! | | | | 9 | | 1 |
| o 3747/371 | | 1 3/3 | | | | | 11 | / | | | | 8 | | - |
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| IDE | NTIFIERS | 11 | NAS | A | | | ; ; : : | | ! | UA KECUM | MENUA | TIONS * | |
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| | : EPD&C-6255 | 11 3/1 | } } | P | I AV | | }} | 1 | 1 | | 1 5 | | i |
| 5-6-2481-1 | : EPD&C-5715 | 11 3/1 | | | , | | 1 1 | / | ! | | 1 2 | | 1 |
| | : EPD&C-5717 | 11 3/1 | | | | | !! | 1 | 1 | | ; Z | | ! |
| | : EPD&C-5719 | | R | | • | P | 11 | 1 | i | | i 4 | | ! |
| | : EPD&C-5721 | 11 3/1 | | P | P ' | | 11 | 1 | j I | | 1.2 | | 1 |
| | : EPD&C-5723 | 11 3/1 | | Pi | ľ | P n | ii | , | 1 | | 1.2 | | |
| | EPD&C-5725 | 11 3/1 | | P | ו מ | ך מ | 11 | 1, | ! | | 12 | | 1 |
| | : EPD&C-5727 | | Ri | | P P | 5 D | : : | j | ! | | 1 2 | | 1 |
| | : EPD&C-5729 | | R I | | | | 11 | <i>'</i> , | ! | | 1 2 | | 1 1 |
| | ; EPD&C-5731 ; EPD&C-5714 | $\frac{11}{11} = \frac{3}{3}$ | | , | ! | • | 11 | , | | | ; 0 | | ļ |
| 15-6-2481-2 | EPD&C-5716 | 11 3/3 | | | | | !! | , | | | 1 0 | | } |
| | ; EPD&C-5718 | 11 3/3 | | | | | 11 | 1 | 1 | | 1 0 | | ; |
| | ; EPD&C-5720 | 11 3/3 | | | | | 11 | 1 | 1 | | ; 9 | | 1 |
| | : EPD&C-5722 | 11 3/3 | - | | | | 1: | 1 | 1 | | ; 0 | | ; |
| | : EPD&C-5724 | 11 3/3 | | | | | 1 I 1 I | 1 | 1 | | 10 | | 1 |
| | : EPD&C-5726 | 3/3 | ; | | | | 1 1 | 1 | ; | | 10 | | 1 |
| | EPDAC-5728 | 11 3/3 | | | | | ! ! | 1 | 1 | | ; 0 | | i i |
| | EPD&C-573 0 | 11 3/3 | 5 | | | | !! | 1 | ļ | | ; Ø | | } |
| 05-6-2482-1 | EPD&C-5506 | 11 3/3 | 5 1 | | | | 11 | 1 | 1 | | 1 0 | | • |
| | : EPD&C-5507 | 11 3/ | 5 ; | | | | 1 1 | 1 | 3 | | 1 0 | | i |
| | : EPD&C-5563 | 11 3/ | | | | | | I | 1 | | : 2 | | i |
| | : EPD&C-5564 | 11 3/ | | | | | 11 | 1 | - 1 | | 1 0 | | i I |
| | : EPD&C-5612 | 11 3/ | | | | | 11 | 1 | 1 | | 1 0 | | i I |
| | : EPD&C-5613 | 11 3/ | | | | | 11 | 1 | 1 | | 10 | | 1 |
| 05-6-2485-1 | EPD&C-5844 | 11 3/ | | | | | - ; ; | 1 | i | | 10 | | 1 |
| | : EPD&C-5846 | 11 3/ | | | | | 11 | | i | | : 10 | | 1 |
| | : EPD&C-5848 | 11 3/ | | | | | 11 | | ! | | . 0 | | 1 |
| | : EPD&C-6009 | 11 3/ | | | | | 11 | | 1 | | : 0 | | 1 |
| | EPD&C-6011 | 3/ - 3/ | | | | | 11 | | : | | 1 0 | | 1 |
| | EPD&C+6013 | - 11 - 3/ - 11 - 3/ | | | | | 11 | | : | | 1 2 | | ; |
| | : EPD&C-6189 : EPD&C-6190 | 11 3/ | | | | | - 11 | | | | 1 2 | | i |
| | : EPD&C-6193 | 11 3/ | | | | | 11 | | ! | | 1 0 | | ! |
| 35-5-2485-2 | : EPD&C-5843 | | 1R | Þ | F | Ρ | 11 | | į | | : 5 | | İ |
| 30-0-140A-7 | EPD&C-5845 | | 1R | | F | P | 1.1 | / | 1 | | ; 5 | | 1 |
| | EPD&C-5847 | | 1R | | F | P | 1 1 | . / | 1 | | ; 5 | | 1 |
| | EPD&C-6008 | | 1R | ۱۶ | F | P | 1 1 | <i>f</i> | ! | | 1 5 | | † |
| | EPD&C-4010 | 11 37 | 18 | P | F | F | 1 1 | 1 | ļ | | ; 5 | | |
| | EPD&C-6012 | 11 37 | 18 | ; P | F | Ρ | 1 | 1 / | 1 | | ; 5 | | ì |
| | EPD&C-6188 | 11 37 | 1R | ! P | F | Ρ | 1 | | 1 | | 5 | | ; |
| | EPD&C-6191 | | 118 | | F | P | 1 | | | | 5 | | i , |
| | : EPD&C-6192 | | 1R | ; P | È | F | 1 | | : | | 5 | | |
| 95-6-2486-1 | : EPD&C-5850 | | /3 | ! | | | i | | 1 | | | | : |
| | EP9&C-5852 | | /3 | i | | | 1 | | | | : 3 : 0 | | ; ! |
| | : EPD&C-5854 | | /3 | 1 | | | 1 | | : | | 1 2 | | ! |
| | EPD&C-6015 | | /3 /3 | i ! | | | 1 1 | | ! | | ; 3) | | 1 |
| | EPD&C-6017 | | /3 /3 | 1 | | | 1 | | ! | | . 2 | | • |
| | EPD&C-6019 | 11 3 | 1.0 | ŧ | | | | 1 / | , | | | | 1 |

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| | EPD&C-6197 | 1 1 | 3/3 | } | | | 11 | 1 | 1 | 1 (| | , , |
| | EPD&C-6198 | 1; | | • | | | - 11 | 1 | 1 | ; (| 3 | 1 |
| 05-6-2486-2 | : EPD&C-5849 | | 3/1R | | | P | ! ! | 1 | 1 | 5 | 5 | 1 |
| | FPD&C-5851 | | 3/1R | | | Ρ | 1 1 | 1 | 1 | 1 5 | 5 | ! |
| | EPD&C-5853 | ; ; | | | | P | ! ! ! ! | • | ; | ! 5 | 5 | <u> </u> |
| | EPD&C-6014 | | | | | P | 11 | • | ! | ! 5 | | 1 |
| | EPD&C-6016 | 1 2 | | | | P | 11 | • | 1 | 1 5 | | 1 |
| | : EPD&C-6018 | 11 | | | - | P | | - | ! | ! 5 | | 1 |
| | EPD&C-6195 | 11 | | | | P | 11 | • | 1 | 1 5 | | į |
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| 10-0-740/-I | EPD&C-5856 EPD&C-5858 | | 3/1R | | | A P | - ! ! | • | i | 1 5 | | 1 |
| | : EPD&C-5860 | | 3/1R 3/1R | | | 1 2 | 1 1 | | ; | 5 | | 1 |
| | : EPD&C-6021 | | 3/1R | | | P | ! ; | / | i | 5 | | 1 |
| | EPD&C-6023 | | 3/1R | | | A P | 11 | /, | | ; 5 | | |
| | EPD&C-6025 | | 3/1R | | | i r | 11 | 1 | į I | 1.5 | | ; |
| | EPD&C-6201 | | 3/1R | | | P | 11 | 1. | i 1 | 1 5 | | |
| | : EPD&C-6202 | | 3/1R | | | P | !! | , | i • | ; 5 ; 5 | | |
| | EPD&C-6205 | | 3/1R | | | P | 1 1 | 1 . | i ! | i 5 5 | | |
| 15-6-2487-2 | EPD&C-5855 | | 3/1R | | | P | 11 | , | ! ! | ; 2 | | į , |
| | EPD&C-5857 | | 3/1R | | | , Р | 11 | / | | , ø | | • |
| | EPD&C-5859 | | 3/1R | | | P | 11 | ; | | . 0 | | i 1 |
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| | : EPD&C-6022 | | 3/18 | | | P | 11 | , | , ! | . O | | 1 + |
| | : EPD&C-6024 | | 3/1R | | | P | 11 | / | | . 2 | | |
| | : EPD&C-6200 | ;; | 3/1R | P | P | P | 1 1 | / | | . 0 | | |
| | EPD&C-6203 | ! ; | 3/1R ; | P | Ρ | P | 11 | / | | . 0 | | |
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| | EPD&C-6185 | | 3/3 1 | | | | 1 1 | / ! | : | 0 | ! | |
| 5-6-2488-2 | : EPD&C-5839 | | 3/1R | | | | | / : | | 5 | ; | |
| | EPD&C-5004 | | 3/1R | | | | | / I | | 5 | 1 | |
| F SIAD . | EPD&C-6184 | | 3/18 | | ۶ | p | | 7 1 | 5 | 5 | ! | |
| 5-5-2 489- 1 | EFD&C-5842 | | 3/3 | | | | 11 | / / | ; | 3 | ; | |
| | EPD&C-6007 | | 3/3 | | | | 11 | / 1 | | 9 | ! | |
| 5-6-2 489 -2 | EPD&C-6186 | | 3/3 (| | _ | | 1 1 | / 1 | ! ! | 0 | ! | |
| · · - | FPD&C-5841 | | 3/1R : | | | | 1 1 | / 1 | i | 7 | } | |
| | : EPD&C-6006 | | 3/1R : | | F | | | / | 1 | 7 | i | |
| | : SPD&C-6187 : EPD&C-5663 | | 3/1R | | | | | / 1 | ! | 7 | ; | |
| | EPD&C-5665 | | 3/1R : | | | | 11 | 1 1 | | 2 | | |
| | : EPD&C-5664 | | 3/1R | | F | | 11 | 1 1 | 1 | 2 | ! | |
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| 83-6-2493-1 EPBC-6659 171 | | • | | 2/1R | } F |) | | P | ; ; | / | - - | | 2 | 1 |
| | | : EPD&C-6670 | 1 1 | 2/1R | F |) | F | P | | 1 | ; | | | 1 |
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| 85-6-2494-2 EPD4C-6533 | | : EPD&C-6534 | 11 | 3/1R | ; [| 2 | P | Ρ | | | 1 | | | i |
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| | 05-6-2495-2 | : EPD&C-6539 | 1 i | 3/1R | 1 | P | Ρ | P | | | 1 | | | i |
| EPDAC-6545 | | : EPD&C-6541 | 1 | 3/1R | i | P | P | Ρ | - | | 1 | | . • | |
| D5-6-2496-1 | | EPD&C-6543 | ! | 3/1R | i | P | Ρ | Ρ | | | ! | | • • | i |
| EPDAC-6558 | | EPD&C-6545 | ! | 3/1R | ! | P | Ρ | ٩ | ļ | } / | 1 | | ; 5 | ! |
| EPD&C-6550 | Ø5-6-2496-1 | : EPD&C-6546 | 1 | 3/1R | 1 | P | F | P | : | 1 / | ; | | . 0 | |
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| 05-6-2509-1 | 05-6-2508-1 | EPD&C-5697X | | -, | ! | P | F | P | | | 1 | | , <u>-</u> | : |
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| 05-6-2510-2 EPD&C-6702X 2/1R P F P / | 95-6-2 509- 2 | | | | | | | | | | | | | : |
| 25-6-2504-1 | 25-6-2510-1 | | | | | | F | 7 | | | | | | |
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| SPD&C-5399 | 35-6-2601-1 | | | | | | 2 | P | | | 1 | | _ | |
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| | EPD&C-5560 | 11 | 3/1R | ; F | - F | F | P |) i | 1 | t i | | 1 2 |) | 1 |
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| | : EPD&C-5611 | 1 1 | 3/1R | ; F | þ | F | ٩ | ; ; | 1 | 1 | | ; 5 | | ! 1 |
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| | EPD&C-5317 | 1 1 | | ¦ F | 4 | ٩A | P | 1 ! | 1 | ! | | ; 5 | | 1 |
| | EPD&C-5320 | 1 1 | | | | ۱A | - | 13 | 1 | i t | | 1 5 | | } |
| | EPD&C-5321 | ! ! | | | | AV | P | 11 | 1 | 1 | | : 5 | | ; |
| 05-6-2611-1 | : EPD&C-5974 | ; ; | | | | • | P | 1 1 | / | 1 | | 1 1 | | 1 |
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| | EPD&C-6325 | !! | 3/3 | | | | | !! | , |) ! | | . 10 | | į I |
| | EPD&C-6327 | | 3/3 | | | | | !! | , | | | . 2 | | 1 |
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| | EPD&C-6334 | 11 | 2/1R | P | Ρ | ſ | p | | / | | | a | | |
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| | EPD&D-6152 | | 2/1R | | | Ì | | | / 1 | | | ð | | |
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| 05-6-2619-1 | : EPD&C-5799 | 13 | 3/1R | | _ | F | P | ; | | i | 15 | 1 |
| | : EPD&C-5800 | 11 | 3/1R | | P | + | P | ; | | i | ; 5 ! 5 | |
| | : EPD&C-5803 | 11 | 3/1R | | P | F | P | 1 | | i | 15 | i i |
| | : EPD&C-5804 | 1 1 | 3/1R | | P | F | P | ŀ | | i | ; 3 ; 5 | 1 |
| | : EPD&C-5805 | 11 | 3/1R | | P | F | P | - | • | i | ; 3 ; 5 | 1 |
| | : EPD&C-5806 | 13 | 3/1R | | P | F | P | 1 | | i | | |
| | EPD&C-5809 | 1 1 | 3/1R | | P | • | P | 1 | | i | ; 5 | : 1 |
| | EPD&C-5810 | ! ! | | | | , | P | ; | | i | 1 5 | |
| 35-5-2 620- 1 | : EPD&C-5 801 | 1 1 | ± / ± / · | | | F | ٠ | 1 | | i | 1 0 | |
| | : EPD&C-5802 | 11 | 2/1R | | | F | p | 1 | | 1 | 3 | |
| | EPD&C-5807 | 1 1 | 2/1R | | Ρ | F | P | 3 | | | 1 2 | 1 |
| | EPD&C-58 08 | 1 : | 2/1R | | | F | P | 1 | | i | 1 0 | 1 |
| 25-6-2651-1 | : EPD&C-511 0 | 1 1 | 2/18 | | P | ٩ | F | 1 | | 1 | 0 | : |
| | EPD&C-5249 | 11 | 2/1F | | | 2 | Ρ | 1 | | | 0 | ¥ - |
| | EPD&C-5449 | 11 | 2/18 | } ; | ۶ | P | P | ŀ | | * | 0 | ; |
| 05-6-2651-2 | : EPD&C-5111 | ! ! | 2\2 | i | | | | | 1 / | | 1 0 | i |
| | EPD&C-5250 | 1 1 | 2/2 | 1 | | | | | 1 / | ! | 8 | i |
| | EPD&C-5450 | 1 1 | 3/3 | | | | | | 1 / | 1 | 1 3 | ì |
| 05-6-2652-1 | EPD&C-5510 | 1 1 | 3/16 | 1 | Ρ | F | Ρ | | 1 / | } | 1 0 | į. |
| | : EPD&C-5574 | 1 ! | 3/11 | } | Þ | F | Ρ | | 1 / | • | 1 0 | i |
| | EPD&C-5588 | 1 1 | 3/18 | } ; | Ρ | F | P | | 1 / | 1 | ð | |
| 95-6-2692-2 | : EPD&C-5511 | 1 1 | 3/3 | F 5 | | | | 1 | 1 / | : | 1 2 | |
| | EPDAC-5575 | ; ; | | ; | | | | | 1 / | 1 | ; 3 | |
| | : EPD&C-5589 | 11 | | 1 | | | | | 1 / | ! | 0 | 1 |
| - | EPD&C-5084 | ; ; | | | | Ρ | P | | +I | 5 | 1 2 | i |
| ! ===== - | EPD&C-5224 | ! ! | 2/1 | R I | ρ | 2 | Ρ | , | 11 / | ę I | 1 2 | i |
| 7 | EPD&C-5231 | 2 1 | 2/1 | R : | P | ۶ | P | | 11 / | † † | 1 2 | i |
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| IDENT | IFIERS | 1 4 | <u> </u> | VAS/ | | | ! | ! ! | | MENDATIONS * | |
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| NASA FMEA NUMBER | : IOA : ASSESSMENT NUMBER | ;; | CRIT HW/F | ; s | CRE | ENS C | ; | CRIT | SCREENS A B C | (SEE LEGEND CODE) | : ISSUE |
| 05-6-2653-1 | : EPD&C-5434 | =;;= | 2/1R | | | | | ;====== / | :;========= | ;===================================== | : |
| 05-6-2653-2 | : EPD&C-5083 | 11 | 3/1R | ; P | F | Ρ | 1 | 1 | 1 | 1 17 | i |
| | | 1 1 | 3/1R | ; P | F | P | ļ | 1 | 1 | 1 17 | } |
| | | | 3/18 | | | P | ; | | 1 | 17 | 1 |
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| 05-6-2654-1 | | | 2/1R | | | P | : | • | | 1 2 | 1 |
| 8 5-6-2654-2 | | | 2/1R | | | Р | ; | / | | 1 2 | ! |
| 60-0-2004-2 | | | 3/1R 3/1R | | | P | : : | | | 1 17 | ! |
| 05-6-2655-1 | | | 2/1R | | | P | 1 1 | | | 1 17 | 1 |
| | | | 2/1R | | | • | 11 | | | 1 2 1 2 | i t |
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| 05-6-2657-1 | | | 2/1R | P | P | P | 11 | | 1 | 1 2 | 1 |
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| | EPD&C-5421 | ; ; | 2/1R | ; P | P | Ρ | ; ; | 1 | 1 | 1 2 | |
| 05-6-2657-2 | | | 3/3 | i F | | | ; ; | / | 1 | ł 0 | ! |
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| 25 / 0/70 / | | | 3/3 | ; | | | 11 | | ; | . 0 | 1 |
| 0 5-6-2658-1 | | | 2/1R | | | P | 11 | • | | 1 2 | 1 |
| 05-6-2658-2 | | | 2/1R | | F | P | 13 | • | 1 | 1 2 | ! |
| 81-0-1010-7 | | | 2/1R | | P | P | !! | 1 | 1 | 0 | ; |
| 05-6-2659-1 | | | 2/1R 1/1 | | ρ | P | 11 | / | 1 | 0 | |
| 05-6-2659-2 | | | 2/1R | | M.A | P | :: | | i ; | 9 | ; |
| | | | 2/1R | | | P | 11 | | i : | ; 0 : 8 | i |
| | | | 2/1R | | NA | | 11 | 1 | ! ! | . 6 : 6 | i ! |
| 95-6-2701-1 | | | 2/1R | | P | | 11 | , | : ! | 2 | ! ! |
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| | | | 2/18 | | Ρ | P | 11 | 1 | ! ! | 2 | : |
| 05-4-2701-2 | EPD&C-5109A | 1 1 | 3/3 3 | | | | 1 1 | 1 | | 9 | ! |
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| | | | 3/3 | | | | : ! | 7 | : ! | 3 | : |
| 35-5-2702-1 | | | 3/18 3 | | | | 11 | / | | 8 | |
| | | | 3/18 | | | | : 1 : 1 | / | | 3 | i |
| 05-6-27 02- 2 | | | 3/1R : | Р | F | P | 11 | / ! | 1 | 2 | |
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| 05-6-2703-2 | | | 3/3 ; | | | | . ! | 7 1 | : | - 0 | |
| | EPD&C-5223A : | | 3/3 | | | | | 1 | * * 2 | 2 | |
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| 95-6-27 04 -2 | | | 3/3 | | | | : ! | 1 | į | 0 | |
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| IDE | NTIFIERS | 11 | NA | SA | | | : ! | ! | | IOA RE | COMM | ENDA1 | TIONS \$ | |
|--|--|------------|--------|--------|-----|-----|--------|------------|-----|---------------|------|------------|--------------------------|-------------------|
| nasa Fmea number | : IOA : ASSESSMENT NUMBER | ;; | CRIT : | A | В | C | ł | ¦ H | W/F | SCREEN A B | C ! | | OTHER EE LEGEND CODE) | ISSU - - |
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| 5-6-2705-1 | : EPD&C-5220 | 1 1 | 2/1R | P | P | P | i | | 1 | i | , | 2 | | i , |
| | EPD&C-5226 | 1 1 | 2/1R | P | P | P | ŀ | | 1 | 1 | i | 2 | | i |
| 5-6-2705-2 | : EPD&C-5220A | 1 1 | 3/3 |)) | | | | i | 1 | 1 | 1 | 0 | | ; |
| V D 2 | 1 EPD&C-5226A | 11 | 3/3 | | | | 1 | 1 | 1 | i i | i | - 0 | | i |
| 5-6-2707-1 | : EPD&C-5097 | 1 1 | 2/1R | P | P | P | } | į | 1 | 1 | ł | 2 | | i |
| 2 2 2/2/ - | EPD&C-5205 | 1 1 1 1 | 2/1R | ۱ ۹ | P | Ρ | | ; | 1 | 1 | | 2 | | ; |
| | EPD&C-5419 | 11 | 2/1R | l P | ٩ | P | 1 | i | 1 | ! | | 2 | | i |
| 5-6-2707-2 | : EPD&C-5097A | 11 | 3/3 | ļ | | | 1 | 1 | 1 | ; | | 0 | | i |
| 0 9 2/0/ 2 | EPD&C-5205A | 1 1 | 3/3 | ! ! | | | ! | 1 | 1 | ! | | 0 | | i |
| | : EPD&C-5419A | 11 | 3/3 | ļ | | | | 1 | / | 1 | | ł Ø | | ; |
| 15-6-2708-1 | : EPD&C-6707X | 11 | 3/3 | l | | | | ; ; | J | 1 | | . 9 | | |
| 10 0 1/00 1 | : EPD&C-6708X | 1 1 | 3/3 | ŧ | | | | 1 1 | 1 | • | | : 0 | | ! |
| NS-6-2751-1 | : EPD&C-5988 | 1 1 | 2/1R | i P | P | F |) | ; ; | 1 | 1 | | 1 2,6 | | i |
| 70 0 1704 1 | : EPD&C-5990 | 11 | 2/1R | l P | P | F |) | 11 | 1 | ł | | 1 2,6 | 5 | i |
| 15-6-2751-2 | EPD&C-5988A | 11 | 2/1R | P | P | - |) | : : | 1 | ! | | : 0 | | ; |
| 70 0 27 01 1 | EPD&C-5990A | 11 | 2/1R | 1 F | P | • | • | 11 | 1 | ; | | 10 | | i |
| 85-6-2751- 3 | EPD&C-5989 | 1 1 | 3/1R | 1 F | P | F | • | 11 | 1 | ì | | 1 2 | | • |
| 00 U 1/01 0 | EPD&C-5991 | | 3/1R | 1 8 | P | • | P | 11 | 1, | 1 | | 1 2 | | ļ |
| 3 5-6-2752-1 | ; EPD&C-6164 | 11 | 2/1R | F | P | • | P | ! ! ; ; | 1 | } | | 1 2, | 5 | 1 |
| 03-0-1/31 1 | : EPD&C-6167 | 11 | 2/1R | 1 1 | Р |) | P | ! ! | 1 | t i | | 1 2, | 6 | 3 |
| a5-6 - 275 2- 2 | EPD&C-6164A | 11 | 2/1R | 1 5 | o p |) ; | ٦ | 1 1 | 1 | 1 | | 1 | | ļ |
| Ã9±0±719₹ ₹ | : EPD&C-6167A | 11 | 2/1R | 1 | o p |) | ٩ | 1 ! | 1 | i | | 1 0 | | |
| 05-6-2752-3 | EPD&C-6165 | !! | 3/1R | | P |) | Ρ | ! ! } 1 | 1 | 1 | | 1 2 | | ŀ |
| 07-0-7177-2 | : EPD&C-6166 | - 11 | 3/1R | ; (| P |) | P | 1 i | 1 | ; | | 1 2 | | ì |
| 05-6-2753-1 | EPD&C-6348 | : : | 2/1R | 1 | P P | • | P | 1 } | 1 | ; | | 1 2, | Ь | ; |
| 83°9 2700 1 | EPD&C-6350 | !! | 2/1R | 1 | P F | • | P | 1 | 1 | 1 | | 1 2, | 6 | i i |
| 05-6-2753-2 | : FPD&C-6348A | ; ; | 2/1R | 1 | P F |) | P | 1 1 | 1 | : | | 1 8 | | ì |
| 00 0 1/00 L | : EPD&C-6350A | !! | 2/1R | 1 | PF | 2 | Ρ | ; ; | 1 | 1 | | 1 0 | | 1 |
| 05-6-2753-3 | EPD&C-6349 | 1 1 | 3/1R | 1 | P | 0 | F | ; ; | 1 | 1 | | 1 2 | | • |
| 80 0 2700 V | EPD&C-6351 | 11 | 3/1R | ! | p c | D | ٥ | 1 1 | 1 | į | | 1 2 | | |
| 25-6-2754-1 | EPD&C-5992 | 1 1 | 2/1R | 1 | P : | Ç | Ρ | : 1 | 1 | ì | | 1 2, | | 1 |
| <u> </u> | EFD&C-3994 | : ! | | | | | | : 1 | 7 | 1 | | 2, | å | ' |
| 35-e-275 4- 2 | EPD&D-5992A | : | 2/1R | i | p : | 2 | Ť | 5. | i | i | | 5 | | |
| ee e arer a | EPD&C-5994A | 1 | 2/1R | : | P : | Ģ | P | ; ; | 1 | : | | 1 1 | | |
| 35-6-2754-3 | : EPD&C-5993 | 1 | I/1R | į | P | P | P | 1 1 | 1 | 1 | | 1 2 | | - |
| 60 0 5161 5 | EPD&C-5995 | ; | 1/1R | ÷ | P | Ē | 9 | 11 | 1 | 1 | | 1.2 | | |
| 95-6-2755-1 | : EPDAC-6156 | : | 2/1R | | Ê | ۶ | P | 1 1 | 1 | 1 | | 1 2, | | |
| 20 0 1100 1 | EPD&C-6159 | : | 1 2/1R | 1 | ρ | Ρ | P | 11 | 1 | 1 | | 1 2, | , à | • |
| 25-6-2755-2 | EPD&C-6156A | ; | 2/1R | | ٢ | Þ | P | 1.1 | 1 | ! | | 1.0 | | |
| 00 0 2/00 2 | : EPD&C-6159A | ! | 1 2/18 | | P | 2 | 2 | : ! | 1 | 1 | | . 1 | | ; |
| 35-4-2755-3 | EPD&C-6157 | ! | | | | | | 1 1 | | ; | | 1.2 | | 1 |
| | EPD&C-6158 | 1 | | | | | | | | ! | | : 2 | | |
| 25-6-2 756- 1 | EFP&C-6172 | 1 | | | | | | 11 | | ; | | 1 2 | | İ |
| | EPD&C-6175 | ! | 1 2/15 | 1 | P | ٩ | ۶ | | | : | | 1 2 | | |
| 95-6-27 56 -2 | SPD&C-6172A | i | 1 2/18 | | | | | 1 1 | 1 | ! | | 3 | | |
| 20 0 2:08 = | EPD&C-6175A | : | 2/18 | | | | ۶ | : } | 1 | 1 | | 1 0 | | |
| 35-6-2756- 3 | : EPD&C-6173 | 1 | 3/15 | 1 | P | P | | 11 | | 1 | | 1 2 | | ŧ |
| ಲ್ಲ್ ಆ ≖್ರಾಟ್ಕ್ ಅ | : EPD&C-6174 | 1 | 1 3/18 | ₹ : | P | P | P | | | : | | 1 2 | | : |
| 35-4-2757-1 | : SFD&C-6344 | | | | | | | | | i E | | 1.2 | , å | |
| ee e will t | | | ! | | | | | 1.1 | | 1 | | 1 | | 1 |

| IDENTIFIERS | | | | NA5 | | | ! | IOA RECOMMENDATIONS # | | | | | | |
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| NASA FMEA NUMBER | IDA ASSESSMENT NU | ; ; 1BER | CRIT | ! | SCRI A | B 6 | : : | CRIT | SCREENS | OTHER | ; ISS(| | | |
| M3-0-7/3/-1 | EPD&C-6346 | ; ; | ;======: 1 2/1R | == = ¦ | ===: P | | | | | ; | === ; ===== | | | |
| 05-6- 2757-2 | FPD&C-6344A | ! | 1 2/1R | | | | | | | 1 0 | 1 | | | |
| | : EPD&C-6346A | 1 | 1 2/1R | ŀ | P F | Р | | | | 1 0 | 1 | | | |
| 0 5-6-275 7- 3 | : EPD&C-6345 | ; | 1 3/1R | 1 | PF | P | 1 | 1 / | 1 | 1 2 | 1 | | | |
| | : EPD&C-6347 | : | 1 3/1R | ; | PF | P | 1 | 1 / | 1 | 1 2 | 1 | | | |
| 05-6-2801-1 | EPD&C-5112 | ; | 2/1R | ; | PP |) P | 11 | 1 | † | 1 2 | ! | | | |
| | EPD&C-5251 | ! | | : | Р | P | 1 I | / | ; | 1 2 | ; | | | |
| 35 / 255 - | ! EPD&C-5451 | ; | 2/1R | 1 1 | P | P | ; ; | / | 1 | 1 2 | ! | | | |
| ð5-6-28 01 -2 | EPD&C-5113 | 1 | | ļ | | | 1 1 | / | 1 | : 0 | ; ; | | | |
| | EPD&C-5252 | 1 | | 1 | | | ; ; | 1 | 1 | ! 0 | : | | | |
| 15 / ODBO / | EPD&C-5452 | : | | ; | | | 11 | | ! | ! 0 | ! | | | |
| 05-6-28 0 2-1 | ; EPD&C-5512 | ! | | | | þ | ; ; | | ! | ! 0 | ! | | | |
| | : EPD&C-5576 | 11 | | | | | ! ! | - | * } | 1 0 | i ! | | | |
| 5-6-2 802- 2 | EPD&C-5586 | # 1 ! 1 | | ; F | F | P | ! ; | | ! | : 0 | 1 | | | |
| 10-0-2002-2 | : EPD&C-5513 | ; ; | | i | | | 1 1 | | 1 | : 0 | 1 | | | |
| | EPD&C-5577 | 11 | | | | | 11 | | 1 | . 0 | ł | | | |
| 15-6-2803-1 | ; EPD&C-5587 ; EPD&C-5103 | 1 1 | | ; | | | 1; | 1 | 1 | i 0 | ! | | | |
| 0 0 1000 1 | : EPD&C-5237 | 11 | | | | • | 11 | <i>f</i> | } | 9 | i | | | |
| | EPD&C-5241 | ! i | | | | P | !! | - /, | ; | 0 | 1 | | | |
| | EPDAC-5444 | 1 1 | | | | P | 11 | , | i ; | 0 | ; | | | |
| 5-6-2803-2 | EPD&C-5102 | 11 | 3/1R | | F = | г п | 11 | , | i ; | 9 | i | | | |
| | EPD&C-5236 | 11 | | | Ę | Г В | 11 | | | 17 | ! | | | |
| | EPD&C-5240 | 1 1 | 3/1R | | F | F D | 11 | 1 | | 17 | | | | |
| | EPD&C-5443 | 11 | 3/1R | | F | D | ! } | 1 | | 17 | } | | | |
| 5-6-2804-1 | EPD&C-5118 | 11 | 2/1R | | P | P | 11 | 1 | | 17 0 | | | | |
| | EPD&C-5442 | 11 | 2/1R | | P | P | 11 | , | ! ; ! ; | g: 0 | i | | | |
| 5-6-28 04 -2 | EPD&C-5117 | 11 | 3/1R | | • | P | ! ! ! ! | , , | ! ! | 17 | j | | | |
| | : EPD&C-5441 | 11 | 3/1R : | | F | Р | 11 | , | | 17 | i | | | |
| 5-6-2805-1 | : EPD&C-5235 | 11 | 2/1R | | p | P | 1 1 | 1 1 | : | 7 / Ø | i | | | |
| | EPD&C-5238 | 1 1 | 2/1R : | o | Þ | P | 11 | / | · ' | Ģ | 1 | | | |
| 5-4-28 05- 2 | EPD&C-5234 | 1 1 | 3/3 1 | | | | 1 | / | | a | 1 | | | |
| | EPD&C-5239 | 11 | 3/3 : | | | | : ! | 1 : | 1 | | | | | |
| 5-6-2807-1 | EPD&C-8 090 | 1 1 | 2/1R | P | ۶ | Đ | 1 1 | / ! | : | 2 | ! | | | |
| | EPD&C-5213 | 11 | 2/18 | P | Ρ | ٥ | 11 | 7 : | ! | 2 | | | | |
| | EPD&C-5426 | 1 1 | 2/1R | ٩ | F | P | 11 | / } | ; | 2 | | | | |
| 5-6 -2807 -2 | EPD&C-5089 | : ! | 3/3 (| | | | ! ! | / / | 8 † | ij | | | | |
| | EFD&C-5212 | : 1 | 2\\2 \ | | | | 1 1 | 7 1 | 1 | <u> </u> | 1 | | | |
| | EPD&C-5425 | 11 | 3/3 1 | | | | : 1 | / : | 1 | ð | 1 | | | |
| -6-2 902- 1 | EPD&C-5514 | ! } | 3/1R | | | | ! ! | | i | ą | ì | | | |
| | EPD&C-5517 | 11 | J/18 | | | | | | ! | 3 | 1 2 | | | |
| | : EPD&C-5578 | ! ! | | | | | | | - | 0 | : | | | |
| | : EPD&C-5581 | - 11 | Z/1R | | | | | 1 - 1 | ! | | i | | | |
| | EPD&C-5582 | 11 | - · · · · | | | | | 1 1 | | 0 | ! | | | |
| -6-2902-2 | : EPD&C-5585 : EPD&C-5515 | 11 | 3/1R | | | | | 1 | | ₫. | | | | |
| U 4:04 1 | EPD&C-5516 | 11 | 3/1R | | 5 | | 11 | | | 6 | i | | | |
| | : EPD&C-5579 | 11 | 3/1R | | | | | | | 3 | 1 | | | |
| | : EPD&C+5580 | | 3/1R 3/18 | | | | | 4 1 | | 3 | 1 | | | |
| | : EPD&C-5583 | 11 | 3/1R 3/1R | | | | 11 | | , | 8 | 1 | | | |
| | 보기 되었다. 즉작합니 | 11 | 24.TM : | £ | - | Γ | 1 1 | - 1 i | 1 | 3 | : | | | |

| I DEN' | TIFIERS | ;; N | | : _ : | ! ! ! ! ! ! | ! IOA RECOMMENDATIONS 1 | | | | | | |
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| | == =================================== | ====== 3/1R | :==: ! P | ==== F | P | ;;== ;; | / | :;===== ; | : 8 | | } | |
| 5-6-2902-2 | | 11 3/1R | | F | - | 1 1 | 1 | 7 | 1 0 | | ļ | |
| 5-6-2902-3 | | 3/1R | | F | | 11 | 1 | ! } | 1 0 | | , | |
| | : EPD&C-5578A | 11 3/1R | | F | P | 1 i 1 i | 1 | 1 | ; 9 | | ì | |
| | ; EPD&C-5581A | 11 3/1R | | F | Р | ! ! | 1 | } | 1 0 | | i | |
| | EPD&C-5582A | 11 3/1R | | F | P | 1 1 | 1 | 1 | 1 0 | | 1 | |
| | ; EPD&C-5585A | 11 3/1R | | F | P | 1 1 | 1 | 1 | 1 0 | | ! | |
| 15-6-2903-1 | : EPD&C-5811 | 11 3/1R | | _ | P | 1 1 | 1 | 1 | : O | | ; | |
| 77-6-2703-1 | ; EPD&C-5814 | 3/1R | 1 F | F | P | 11 | 1 | } | ; 0 | | 1 | |
| | EPD&C-5815 | 11 3/1R | | | P | 1 1 | 1 | ; | ; Ø | | | |
| | ; EPD&C-5818 | 3/1R |) F | F | P | 11 | 1 | 1 | ; 0 | | 1 | |
| | : EPD&C-5819 | 3/1R | ; F | F | P | ; ! | 1 | 1 1 | ; 0 | | 1 | |
| | EPD&C-5822 | 11 3/1R | ; [| F | P | 1 1 | 1 | 1 | ; 0 | | | |
| | : EPD&C-5823 | 11 3/1R | 1 1 | F | P | 11 | 1 | 1 | ¦ 12 | | i | |
| | EPD&C-5826 | 11 3/1R | 11 | F | Р | 1 | 1 | ļ | ; 0 | | i | |
| 05-6-29 0 3-2 | : EPD&C-5812 | 11 3/1R | : 1 | F | P | 1 1 | 1 | , | ; 8 | | i | |
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| | : EPD&C-5816 | 11 3/1E | | PF | P | !! | 1 | ! | 1 8 | | 1 | |
| | EPD&C-5817 | 11 3/18 | } } | PF | P | 1 1 | 1 | ; | 1 8 | | i | |
| | EPD&C-5820 | 11 3/16 | } ; | P F | P | 1 1 | 1 | } | 1 8 | | i | |
| | : EPD&C-5821 | H 3/16 | } ¦ | PF | Ρ | 1 1 | 1 | ; | 1 8 | | i | |
| | EPD&C-5824 | 11 3/19 | } } | PF | P | 1 1 | 1 | 1 | 1 3 | | i | |
| | EPD&C-5825 | 11 3/18 | ₹ : | ΡF | P | i ! | 1 | i | : 8 | | i | |
| 05-6-2904-1 | : EPD&C-6709X | 11 / | ! | | | 1 1 | 1 | ; | 1 0 | | i | |
| 85-6-2984-2 | : EPD&C-6710X | 11 / | ; | | | ; ; | 1 | 1 | 10 | | 1 | |
| 05-6EB-2004-1 | : EPD&C-5980 | 11 2/1 | | P P | P | 11 | 1 | | 10 | | 1 | |
| | : EPD&C-5982 | 11 2/1 | | PP | P | ; ; | 1 | 1 | ; 0 | | 1 | |
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| IDENTIFIERS : | | ; ! | i | 10A RECOMMENDATIONS ± | | | | | | | | | | | |
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| | EPD&C-6611 | ; i | - <i>i</i> - i - | | | 1 | | 1 1 | | | | 13 | | 1 | |
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| | EFD&C-6614 | 11 | | | | 11 | | / 1 | | | | 13 | | 1 | |
| | EPD&C-6615 | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | / i | | | ; ; ; ; | | J = 1 | | | | 13 | | 1 | |
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| | EPD&C-6617 | ; ; | <i>i</i> | | | 11 | | 1 1 | | | | 15 | | 1 | |
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| | EPD&C-6619 | 11 | $f = \frac{1}{4}$ | | | 1 1 | | 1 1 | | | | 13 | | 1 : | ; |
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| ! | EPD&C-6621 | 11 | | | | - ! ! | | 4 4 | | | | 13 | | | |

| IDENTIFIERS | | | NASA | | | 1 1 | | | | | | | | |
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| | EPD&C-5508 | 1 1 | 1 | 1 | | | 11 | 1 | 1 | | | 12 | | |
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